# SIERRA LEONE.

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# Annual Report

ON THE

# MEDICAL DEPARTMENT

FOR THE

YEAR ENDED 31ST DECEMBER, 1914.

4

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# SIERRA LEONE.

# ANNUAL MEDICAL REPORT FOR THE YEAR ENDING 31st DECEMBER, 1914.

Colonial Medical Department,
Freetown, Sierra Leone,
13*th May*, 1915.

Sir,

I have the honour to submit, for the information of His Excellency the Governor, and for transmission to the Right Honourable the Secretary of State, the Medical Report on the health and sanitary condition of the Colony and Protectorate of Sierra Leone for the year 1914, together with the returns, etc., appended thereto.

I have the honour to be, Sir,
Your obedient Servant,
THOS. E. RICE,
*Principal Medical Officer.*

The Honourable
The Colonial Secretary,
Freetown.

## I.—ADMINISTRATIVE.

### STAFF.

The Medical Staff consisted of :—

Principal Medical Officer
Senior Sanitary Officer,
Senior Medical Officer,
Sanitary Officer,
Medical Officer of Health,
20 Medical Officers,
3 Native Medical Officers.

The following changes took place in the staff :—

Dr. J. Wallace Collett, Senior Medical Officer, was transferred to Nigeria.

Dr. D. Burrows, Senior Medical Officer, was transferred to this Colony from Nigeria.

Dr. W. C. E. Bower and Dr. G. Rollason were transferred to Nigeria.

The following Medical Officers were seconded for service with the Cameroons Expeditionary Forces :—Dr. E. F. Ward, Dr. F. E. Whitehead, Dr. N. S. Deane and Dr. M. C. F. Easmon.

Dr. G. G. Butler was seconded for special work in connection with the Yellow Fever (West Africa) Commission, and collaborated for a short time with Dr. J. M. Dalziel and Dr. W. B. Johnson, who were seconded to this Colony from Nigeria for similar work.

Dr. J. Wallace Collett acted as Principal Medical Officer from the 15th of June to the 28th of November.

Dr. E. W. Wood-Mason, Dr. H. E. Arbuckle and Dr. J. C. Murphy acted at different times as Senior Medical Officer.

The following Medical Officers were appointed :—Dr. P. A. Clearkin, Dr. J. McK. Clark, Dr. J. M. O'Connell and Dr. N. S. Deane.

*Employment of Temporary Assistance.*—Dr. M. L. Jarrett, Native Medical Officer (on pension), was temporarily re-engaged.

The Government Dentist, Mr. H. F. Hardie, arrived in the Colony on the 15th of March and remained until the 26th of April.

*Changes in the Native Staff.*—Mr. M. P. Cole was appointed Second Grade Clerk in the Medical Office.

With a view to making the Medical Department more attractive as a career and abating the existing discontent, a scheme was prepared and sanctioned for the re-organisation of the Native Staff, and the bringing of their prospects more into line with those afforded by the Clerical Service.

## FINANCIAL.

| | £ | s. | d. |
|---|---|---|---|
| Revenue ... ... ... ... ... ... | 1,793 | 7 | 1 |
| Expenditure ... ... ... ... ... | 29,832 | 0 | 4 |

# II.—PUBLIC HEALTH.

## GENERAL REMARKS.

*Malaria.*—The total number of patients treated at the various hospitals and dispensaries during the year amounted to 49,405, and of these 2,460 come under the heading of malarial fever, the returns stating that 1,196 of these cases were diagnosed microscopically.

In Freetown itself no less than 1,027 cases of this disease were treated, 282 of which were diagnosed microscopically.

The varieties of parasites found in those examined in the clinical laboratory were in the following proportions :—

| | |
|---|---|
| Subtertian ... ... ... ... ... | 74·5 per cent. |
| Quartan ... ... ... ... ... | 20·2 per cent. |
| Benign ... ... ... ... ... | ·69 per cent. |
| Mixed ... ... ... ... ... ... | 4·6 per cent. |

An interesting account of Dr. Wood's investigation on the subject of Malaria in the Koinadugu District will be found under the heading "Scientific," in Part IV.

*Blackwater fever.*—Eleven cases of this disease were reported, of which four were fatal. The usual Annual Report on the subject has already been submitted.

*Trypanosomiasis.*—Five new cases of sleeping sickness were discovered, four in Freetown and one at Moyamba.

Dr. Wood contributes under Heading IV. a special report on this disease in the Koinadugu District.

Dr. Butler, in his annual report on the Clinical Laboratory, states that the parasite found in the Freetown cases appears to be of the *gambiense* type.

Late in the year Professor Yorke and Dr. Blacklock, from the Liverpool School of Tropical Medicine, started an investigation into the subject, paying particular attention to the percentage of infection of the *Glossina* found in the vicinity of Freetown, and no doubt the results of their labours will form the subject of a special report, which should add materially to our knowledge.

*Dysentery.*—At the various hospitals and dispensaries 296 cases of dysentery were treated. Of these, 104 are returned as amœbic and 83 as bacillary, whilst the remainder are unclassified.

*Leprosy.*—Twenty-two cases of leprosy were reported during the year. The Medical Officer, Kissy, reports that at the beginning of the year there were four patients in the Leper Asylum; two were admitted, one died, and four absconded.

In the Annual Report for the year 1913 it is stated that the question of the segregation of lepers was under consideration. The following report, submitted to the Government in the month of May, indicates the attitude of this Department in the matter :—

"The subject of the compulsory segregation of lepers alluded to in paragraph 2 of His Excellency's minute of 30.4.14 is far reaching and involves important issues. Many attempts have been made to solve the problem in various parts of the world, and most authorities, I believe, are now in favour of voluntary segregation.

"On page 8 of the Annual Medical Report of Southern Nigeria for 1912 appears the following reference to this subject:—

"'*Leprosy.*—A total of 117 cases of leprosy came under treatment in the ordinary course. While this includes the cases in the Leper Asylum at Yaba and the settlement at Onitsha, it excludes the large settlement of lepers at Ibusa, near Asaba, which at the end of 1912 contained over 100 cases.

"'The Ibusa settlement was started in 1908 in an endemic centre of the disease; the buildings contained in it are erected partly by the lepers themselves and partly by people in the neighbouring villages. The villages from which the lepers are derived are responsible for their feeding, and there is also a grant from the local Native Court funds, but the arrangement has not proved satisfactory. There is no legal compulsion for lepers to remain in the settlement and no form of treatment can be satisfactorily attempted. It is visited monthly by the Travelling Medical Officer of Onitsha, and is under the control of the District Commissioner, Asaba. There are constant difficulties concerning the feeding of the inmates, as their native villages repudiate their responsibility for them as early and as often as possible.

"'There can be no doubt that the disease is far more prevalent in the Central Province and probably other parts of Southern Nigeria than available returns indicate. It is well recognised by natives, who, in many cases, expel sufferers from their villages to wander through the country or die of exhaustion in the *bush*.

"'The matter is one which has already occupied the attention of the Government, and presents a problem which will demand earnest consideration in the future. It is possible that it may best be dealt with in connection with similar steps in Northern Nigeria.'

"On pages 289 and 290 of No. 6 of Vol. II. of the *Tropical Diseases Bulletin* the following information is given:—

"'Leprosy is spreading in parts of South Africa; in 1895 there were 148 lepers in Basutoland; in 1912, 700. It is probable there are 4,000 lepers, almost exclusively natives, in British South Africa, of whom a large proportion is at large. Nodular and anæsthetic cases should be segregated separately; those infected with tubercle should be isolated. The segregation of lepers is necessary, but their surroundings should be as comfortable as possible, and they should be allowed congenial occupations and amusements; moreover, fewer restrictions need be placed on long-standing anæsthetic cases, in which it is probable that the lepra bacilli have died. Robben Island, where many of the Cape Colony lepers are segregated, is a barren and bleak storm-swept island two miles in length, and less in breadth. The frequent fogs and absence of vegetation make it an inhospitable spot, residence in which adds to the misery of the leper.'

"On page 58 of the Annual Medical Report for Northern Nigeria for 1912 the following reference is made to the subject:—

"'Of this disease 744 admissions, all of them native, were returned, and 66 of them were fatal.

"'Of course these figures are trifling having regard to the great prevalence of leprosy in the country.

"'The principle of segregating lepers is making steady headway; this is particularly the case in the north, as one would expect; segregation being essentially an administrative matter, and the ruling people in the north belonging to a race of administrators.

"'There is a large leper town at Sokoto, well laid out and well run, its only defect being that it is too near the city; but this will be remedied in time, as formerly reported.

"'In Bornu there are admirably well run leper towns at Maiduguri and at Geidam; they are both of them self-contained, and they are patterns of what leper settlements ought to be.

"'Outside of Hadeija there is another one, and, considering that there is no political officer in residence there, and that it is seldom visited by a Medical Officer, it is very effectively run, and reflects great credit on the Emir. Of course the hand of the Resident can be seen in its plan and manner of laying out.

"'Small parties of lepers are also segregated in the Province of Nassarawa and Muri and elsewhere; but, Sokoto, Hadeija and Bornu excepted, the principle of segregation is still in its infancy in most parts of the country.

"'The Mallams trained in the Nassarawa Schools thoroughly understand the philosophy of segregation; and, as they spread over the country, each of them will be a focus of enlightenment on this, as on many another, matter.'

"The methods adopted in British Guiana are summarised as follows on page 7 of the Report of the Surgeon-General for 1911-1912:—

"'55. On the 1st April, 1911, there were 299 males and 123 females in the asylum. During the year 104 males and 35 females were admitted, and on the 31st March, 1912, there were 306 males and 134 females in the asylum. There were 73 deaths, 49 males and 24 females. Their percentage of mortality on total number of inmates was 13.

"'56. The farm was kept in good order and produced:—
Ground provisions, 49,987 lbs., to the value of $499.87.
Coconut oil, 31 gallons, valued at $24.80.
The yield from the farm was adversely affected by the drought.

"'57. The majority of the inmates keep their cottages and grounds neat and tidy. They are given small plots of ground, in which during their spare time they are allowed to grow vegetables, and these are either used by themselves or sold to the store for consumption within the Asylum.

"'58. The gross expenditure (medical attendance excepted) per caput per diem was 15.2 cents and the net expenditure 14.8 cents.

"'59. The total expenditure was $23,597.36 against $26,353.90 last year; and the revenue $538.16 against $524.96.'

"Medical text-books all advocate the segregation of lepers, especially when the disease is in an active stage, but whether such segregation is to be made obligatory or voluntary depends upon the social and political conditions of the country.

"From the foregoing extracts it will be seen that in some parts of West Africa it has been found possible to establish obligatory segregation with the co-operation of the native administration.

"I do not know whether this would be possible in Sierra Leone, and I suggest that it is a point on which the various District Commissioners might well be consulted.

"Personally I am in favour of compulsory segregation, and I think it might be carried out, partly by means of local settlements in the more infected areas and partly by means of a central settlement near Freetown, a purpose for which Bunce Island is admirably adapted.

"The lepers should be allowed to live in houses of native construction; they should be encouraged to engage in agricultural pursuits, and they should be allowed to marry, but the children born under such conditions should be removed from the settlement as soon as possible.

"In Sierra Leone we have a ward in the Male Incurable Hospital at Kissy, which is called a Leper Asylum, and as far as the Colony is concerned the segregation of lepers is compulsory, but in actual practice this is not so, as the lepers almost invariably escape from the institution.

"Any attempt to deal with this problem in an adequate manner must involve very considerable expenditure, and it is for the Administration to decide whether the funds of the Colony are sufficient to meet the cost of such a scheme.

"In any case, before action is decided upon, I would advise, in addition to consulting the District Commissioners as suggested above, that the opinion of experts be obtained.

"There is no Leper Asylum on the Gold Coast, and segregation is not compulsory. There is a Leper asylum near Lagos, and segregation, I believe, is compulsory within the Colony. Mr. Greenwood probably possesses recent information on this point."

(Intd.)
T. E. R.,
P. M. O.

*8th May*, 1914.

*Tuberculosis.*—Throughout the Colony and Protectorate 112 new cases of this disease were returned, of which 57 were in Freetown.

Seventeen deaths are ascribed to tuberculosis in the hospital returns, of which 11 occurred in the Freetown Hospital, out of a total of 22 admissions.

In the Registrar's returns for Freetown and the sub-district of Cline Town, out of a total of 946 deaths registered, 42 are returned as due to tuberculosis in a population of 34,090, which works out at 1·23 per thousand living at all ages.

Whilst the majority of deaths are not certified by medical men, and the sick in the main continue to be attended by unqualified persons, our knowledge of the incidence of this disease must necessarily be incomplete, but the facts recorded by Dr. Butler in his report on the Clinical Laboratory indicate that under the conditions obtaining in Freetown tuberculosis is apt to assume a virulent type. Dr. Butler states that "in the cases showing tubercle bacilli the most noticeable point is the massive infection present, quite different to the usual phthisical sputum that is met with in England. The cases run an extremely rapid and fatal course."

*Syphilis.*—Three hundred cases of this disease were treated at the various hospitals and dispensaries.

In the course of an inspection of the Male Incurable Hospital at Kissy, I noticed a number of chronic cases with extensive ulceration of the soft parts, and arranged for them to be subjected to the Wassermann test, and for those showing a positive reaction to be treated with Salvarsan or Ludyl in the Freetown Hospital.

This was done with marked success, and subsequently formed the subject of a special report.

*Ankylostomiasis.*—This disease formed the subject of a number of special reports from the various out-stations which have already been submitted, and showed the infection to be widespread.

Dr. Butler contributes some interesting observations on the subject in his report on the Clinical Laboratory.

*Yellow Fever.*—One case was reported in a European at Boia, an up-country railway station. The patient recovered.

*Smallpox.*—Both the Colony and Protectorate were singularly free from this disease.

ANNUAL VACCINATION RETURNS.

| Year. | Total Vaccinated. | Successful. | Unsuccessful. | Not seen. |
|---|---|---|---|---|
| 1912 | 10,778 | 8,516 | 751 | 1,511 |
| 1913 | 9,371 | 6,311 | 1,191 | 1,869 |
| 1914 | 6,032 | 4,323 | 1,016 | 693 |

## EUROPEAN OFFICIALS.

TABLE SHOWING THE SICK, INVALIDING AND DEATH-RATES OF EUROPEAN OFFICIALS.*

| | 1912. | 1913. | 1914. |
|---|---|---|---|
| Total number of Officials resident ... ... ... | 230 | 244 | 328 |
| Average number resident ... ... ... ... | 225 | 131 | 204 |
| Total number on sick list... ... ... ... ... | 98 | 97 | 137 |
| Total number of days on sick list ... ... ... | 561 | 948 | 1,463 |
| Average daily number on sick list ... ... ... | 1·53 | 2·59 | 4·00 |
| Percentage of sick to average number resident... ... | 43·55 | 74·04 | 67·15 |
| Average number of days on sick list to each patient ... | 5·72 | 9·77 | 10·67 |
| Average sick time to each resident ... ... ... | 2·43 | 7·23 | 7·17 |
| Total number invalided ... ... ... ... ... ... | 4 | 13 | 11 |
| Percentage of invalidings to total residents ... ... | 1·73 | 5·32 | 3·35 |
| Total deaths ... ... ... ... ... ... ... | 4 | 3 | Nil. |
| Percentage of deaths to total residents ... ... ... | 1·07 | 1·22 | Nil. |
| Percentage of deaths to average number resident ... | 1·73 | 2·27 | Nil. |

* Including Railway and Water-works Construction.

## HILL STATION.

The total number of residents at Hill Station was 74, made up as follows :—

| | |
|---|---|
| Government officials | 48 |
| Military | 4 |
| Missionaries | 2 |
| Non-officials (including wives of military and civil officials) | 20 |

Although the general health of the residents was satisfactory, no less than ten officials suffered from malarial fever, the diagnosis in each case being confirmed microscopically.

A description of some of the mosquitoes found to be breeding on the hill appears in Part III. of this report.

## GENERAL HEALTH OF EUROPEAN OFFICIALS.

The total number of European official residents was 285.

There was no death during the year.

Eleven were invalided from the following causes :—

| | |
|---|---|
| Adenitis | 1 |
| Ulcer of rectum | 1 |
| Pulmonary tuberculosis | 1 |
| Hemiplegia | 1 |
| Neurasthenia | 2 |
| Malarial fever | 2 |
| Enteric fever | 1 |
| Ischio-rectal abscess | 1 |
| Nervous breakdown | 1 |

## GENERAL EUROPEAN HEALTH.

The total number of European residents was 1,191, made up as follows :—

| | |
|---|---|
| Officials | 285 |
| Military | 603 |
| Non-officials | 303 |
| Total | 1,191 |

## CLASSIFICATION OF DEATH RETURNS OF EUROPEANS FOR 1914.

| | |
|---|---|
| Government officials | nil |
| Military, 3 :— | |
| Inflammation of the liver | 1 |
| Blackwater fever | 1 |
| Malaria | 1 |
| Non-officials, 5 :— | |
| Malarial (sub-tertian) fever | 1 |
| Acute general peritonitis | 1 |
| Blackwater fever | 2 |
| Dysentery | 1 |
| Total | 8 |

## NATIVE OFFICIALS.

### TABLE SHOWING THE SICK, INVALIDING AND DEATH-RATES OF NATIVE OFFICIALS.

| | 1912. | 1913. | 1914. |
|---|---|---|---|
| Total number of Officials resident ... ... ... | 655 | 551 | 713 |
| Average number resident ... ... ... ... | 421 | 551 | 700 |
| Total number on sick list ... ... ... ... | 527 | 1,028 | 1,000 |
| Total number of days on sick list ... ... ... | 3,326 | 5,687 | 5,492 |
| Average daily number on sick list ... ... ... | 9·11 | 15·58 | 15·04 |
| Percentage of sick to average number resident ... | 125·17 | 186·38 | 142·85 |
| Average number of days on sick list to each patient ... | 6·31 | 5·53 | 5·49 |
| Average sick time to each resident ... ... ... | 5·07 | 10·32 | 7·84 |
| Total number invalided ... ... ... ... ... | 1 | 7 | 12 |
| Percentage of invalidings to total residents ... ... | 0·15 | 1·25 | 1·68 |
| Total deaths ... ... ... ... ... ... | 2 | 6 | 8 |
| Percentage of deaths to total residents ... ... ... | 0·47 | 1·08 | 1·10 |
| Percentage of deaths to average number resident ... | 0·30 | 1·08 | 1·14 |

### VITAL STATISTICS.

Freetown is the only centre in which statistics of any value are obtainable.

The population in 1911 was estimated at 34,090.

In Tables A, B, C, D and E, attached to this report, will be found the following statistics :—

(*a*) Infantile mortality.
(*b*) Mortality over 12 months.
(*c*) Mortality due to different diseases up to 5 years.
(*d*) Mortality due to different diseases over 5 years.
(*e*) Mortality due to different diseases at all ages.
(*f*) Distribution of deaths according to months and sexes.

Too much reliance must not be placed upon them, as the majority of deaths are not certified by medical men.

THOS. E. RICE,
*Principal Medical Officer.*

9*th May*, 1915.

# III.—HOSPITALS AND DISPENSARIES.

## ANNUAL REPORT OF THE COLONIAL HOSPITAL, FREETOWN.

*Charge.*—The following Medical Officers were in charge of the Hospital for the periods stated opposite their names :—

Dr. Collett, Senior Medical Officer, 1st January to 2nd February, and from 29th November to 14th December, 1914.

Dr. Arbuckle, Acting Senior Medical Officer, 2nd February to 2nd September, 1914.

Dr. Murphy, Acting Senior Medical Officer, 3rd September to 28th November, 1914.

Dr. Wood-Mason, Acting Senior Medical Officer, 14th December to 29th December, 1914.

The following Medical Officers were attached to the Hospital for varying periods in addition to those mentioned above :—

Dr. Butler, Dr. Young, Dr. Easmon and Dr. Clark.

*Government Dental Surgeon.*—Mr. Hardie and his assistant were resident in the Colony on duty from March 15th to April 26th.

*The Matron.*—Miss L. R. Stevens was absent on leave from 2nd February to 14th July, 1914, and on her return proceeded to the Cameroons on active service, her duties in the meantime being carried on by Miss Sutton until the end of the year.

*Junior Staff.*—The Chief Dispenser, Mr. M. N. Lardner, was absent on leave from 16th January to 16th April, 1914.

*The Segregation Ward* (the old "Matron's quarters") was utilised for treating the wives of German prisoners of war.

*The Junior Native Staff* of the Hospital was composed as follows :—

The Resident Dispenser.
The Assistant Resident Dispenser.
Dispenser Luke up to 22nd August.
Eighteen Male Nurses and Dressers up to 9th June.
Seventeen Male Nurses and Dressers up to 8th July.
Sixteen Male Nurses and Dressers up to 22nd August.
Thirteen Male Nurses and Dressers up to 12th September.
Eight Female Nurses.
Five Female Probationers.
The Gate-keeper.
The Store-keeper.
The Assistant Store-keeper.
The Transport Clerk.
The Laundry Man.
The Cook.
The Assistant Cook.
The Head Labourer who assists as Office Messenger.
Eight Hospital Labourers.
One Messenger who relieves the Gate-keeper when off duty.
One Public Vaccinator.

*Clinical Laboratory.*—This Department has fully justified its inception, and the difficulties encountered in the earlier phases of its existence may be reasonably forgotten in the generosity now exhibited towards its maintenance and efficiency. The separate report submitted by Dr. Butler is a proof, not only of its utility, but of the crying necessity it has been since the microscope has assumed its position as the only reliable and scientific means of diagnosis in tropical diseases.

*In-Patients.*—The total number of intern patients treated was 1,443, of these 56 remained over from the previous year.

*Deaths.*—There were 110 deaths, or 7·6 of total admissions. The table shows the number of hours the patients were in hospital before death :—

| Hours. | Male. | Female. | Total. |
|---|---|---|---|
| 24 | 23 | 8 | 31 |
| 48 | 14 | 4 | 18 |
| Accidents | 2 | 1 | 3 |

It will be seen from the table that 31 occurred within the first 24 hours and 18 within the first 48 hours, leaving 61 deaths, which may be reasonably estimated as reducing the death rate to 4·2 per cent. of those treated for more than 48 hours in the hospital. A feature in the mortality column is the deaths from tuberculosis—11 deaths occurred in 25 cases. Attention has been called in previous reports to the increasing menace of tubercular infection among the natives who have assumed artificial methods of living and clothing.

*Out-Patients.*—The actual number of out-patients for the year was 9,174, of whom 5,876 were males and 3,298 were females. The total number of attendances was 21,811. This is about 1,000 less than during 1913, but the establishment of the dispensary at Cline Town no doubt attracts the community in that neighbourhood, as the returns from that district will prove.

*Hospital Buildings.*—The new "Connaught Hospital" was started and considerable progress was effected, but owing to the outbreak of the war building operations were suspended. In the meantime the usual patching of the old fabric continues.

*Revenue.*—The amounts received from paying patients are as follows :—

| Department. | Amount. £ s. d. | Increase over 1913. | Remarks. |
|---|---|---|---|
| In-patients ... ... ... | 167 5 3 | £31 | |
| Out-patients ... ... ... | 116 19 11 | £45 | Includes payment for private prescriptions. |
| Total ... ... ... | 284 5 2 | £76 | |

*Operations.*—The total number of operations performed was 282. Of these 259 were successful, 17 died and 6 remained in hospital at the end of the year. This total number is somewhat below the average for the previous three years, and here again the establishment of the Cline Town Dispensary has undoubtedly caused an apparent shrinkage in numbers.

## TABLE OF SURGICAL OPERATIONS
## (Under Chloroform and other Anæsthetics.)
## COLONIAL HOSPITAL, 1914.

| | Remaining in Hospital, 31-12-13. | Number Admitted. | Total. | Successful. | Not Relieved. | Died. | Remaining in Hospital, 31-12-14. |
|---|---|---|---|---|---|---|---|
| Abscess of liver, incision ... ... | — | 1 | 1 | — | — | 1 | — |
| Abscesses, incision ... ... ... | 1 | 40 | 41 | 41 | — | — | — |
| Amputations ... ... ... | — | 11 | 11 | 11 | — | — | — |
| Avulsion of toe-nail ... ... | — | 5 | 5 | 5 | — | — | — |
| Buboes, incision ... ... ... | 1 | 2 | 3 | 3 | — | — | — |
| Castration ... ... ... ... | — | 1 | 1 | 1 | — | — | — |
| Cataract, removal of ... ... | — | 2 | 2 | 2 | — | — | — |
| Cellulitis, incision for ... ... | — | 1 | 1 | — | — | 1 | — |
| Circumcisions ... ... ... | 1 | 49 | 50 | 48 | — | — | 2 |
| Curetting of uterus ... ... | — | 1 | 1 | 1 | — | — | — |
| Curetting for necrosis of lower jaw | — | 1 | 1 | 1 | — | — | — |
| Cystotomy (suprapubic) ... ... | — | 1 | 1 | 1 | — | — | — |
| Delivery by forceps ... ... | — | 1 | 1 | 1 | — | — | — |
| Dilation and replacement of uterus | — | 1 | 1 | 1 | — | — | — |
| Dislocation, reduction of ... .. | — | 1 | 1 | 1 | — | — | — |
| Elephantiasis of scrotum, removal of ... ... ... ... ... | 2 | 13 | 15 | 11 | — | 4 | — |
| Emptying of uterus after abortion | — | 2 | 2 | 2 | — | — | — |
| Empyema, incision for ... ... | — | 2 | 2 | 2 | — | — | — |
| Enucleation of eyeball ... ... | — | 1 | 1 | 1 | — | — | — |
| Enucleation of tonsils ... ... | — | 1 | 1 | 1 | — | — | — |
| Examination ... ... ... | — | 2 | 2 | 2 | — | — | — |
| Excision of gland ... ... ... | — | 1 | 1 | 1 | — | — | — |
| Exostosis, removal of ... ... | — | 1 | 1 | 1 | — | — | — |
| Extraction of teeth... ... ... | — | 4 | 4 | 4 | — | — | — |
| External urethrotomy ... ... | — | 2 | 2 | 1 | — | 1 | — |
| Foreign body, removal of ... ... | — | 3 | 3 | 3 | — | — | — |
| Gland, removal of ... ... ... | 2 | 1 | 3 | 3 | — | — | — |
| Gangrene of scrotum, scraping ... | — | 2 | 2 | 2 | — | — | — |
| Harelip, suture ... ... ... | — | 1 | 1 | 1 | — | — | — |
| Hernia, radical cure ... ... | -- | 32 | 32 | 26 | — | 3 | 3 |
| Hydrocele, radical cure ... ... | 2 | 5 | 7 | 6 | — | 1 | — |
| Hysterectomy (partial) ... ... | — | 1 | 1 | 1 | — | — | — |
| Induction of labour ... ... | — | 2 | 2 | 1 | — | 1 | — |
| Laparotomy... ... ... ... | — | 2 | 2 | — | — | 1 | 1 |
| Ligaturing of artery ... ... | — | 2 | 2 | 2 | — | — | — |
| Osteomyelitis, scraping & drainage | — | 1 | 1 | 1 | — | — | — |
| Paracentesis of thorax ... ... | 1 | 2 | 3 | 3 | — | — | — |
| Plastic Operation ... ... .. | — | 1 | 1 | 1 | — | — | — |
| Pterygium, removal of ... ... | — | 1 | 1 | 1 | — | — | — |
| Retained placenta, removal of ... | — | 1 | 1 | 1 | — | — | — |
| Rupture of nævus, suturing ... | — | 1 | 1 | 1 | — | — | — |
| Rupture of perineum, suturing ... | — | 9 | 9 | 9 | — | — | — |
| Scraping of abscess... ... ... | — | 1 | 1 | 1 | — | — | — |
| Scraping of fistula ... ... ... | — | 1 | 1 | 1 | — | — | — |
| Scraping of gland ... ... ... | 1 | — | 1 | 1 | — | — | — |
| Scraping of sinus ... ... ... | — | 3 | 3 | 2 | — | 1 | — |
| Scraping of ulcer ... ... ... | — | 2 | 2 | 2 | — | — | — |
| Setting of fracture ... ... .. | — | 4 | 4 | 4 | — | — | — |
| Skin grafting ... ... ... | — | 2 | 2 | 2 | — | — | — |
| Suturing of nerve ... ... ... | — | 1 | 1 | 1 | — | — | — |
| Suturing of wound... ... ... | — | 12 | 12 | 11 | — | 1 | — |
| Thyroidectomy ... ... .. | — | 1 | 1 | 1 | — | — | — |
| Trimming crushed fingers ... ... | — | 1 | 1 | 1 | — | — | — |
| Trimming old amputation ... ... | — | 1 | 1 | 1 | — | — | — |
| Tumours, various, removal of ... | — | 22 | 22 | 20 | — | 2 | — |
| Whitlow, incision for ... ... | — | 1 | 1 | 1 | — | — | — |
| Total ... ... | 11 | 266 | 277 | 254 | — | 17 | 6 |

*Emergency Cases.*—The number of cases treated outside the hours devoted to daily out-patients' attendance was 993.

*Post-mortem Examinations.*—31 bodies were subjected to *post-mortem* examination.

D. BURROWS,
*Provincial Medical Officer.*

16*th February*, 1915.

## ANNUAL REPORT ON THE NURSING HOME.

*Staff.*—The following European nurses were attached to the Home :—

| Name | Rank. | Absent on Leave. |
|---|---|---|
| Miss K. Appleton ... ... .. | Senior Nurse | 8th April to 5th September. |
| Miss Isobel Stevens ... ... .. | Nurse | 22nd June to 14th November. |
| Miss C. Littlewood ... ... ... | Nurse | 8th to 31st December. |

The usual assistance from the Colonial Hospital has continued, and in addition to the male native nurses a female native nurse has been detailed to assist.

*Summary of Work Done.*—Seventy-five cases were admitted during the year. Of these 37 were Government officials and 38 belonged to the mercantile and shipping communities.

The following table shows the numbers at a glance :—

A.

| Diseases treated. | Officials. | Non-Officials. | Total. |
|---|---|---|---|
| Malarial fever ... ... ... | 10 | 19 | 29 |
| Blackwater fever ... ... ... | — | 2 | 2 |
| Enteric fever ... ... ... | 1 | — | 1 |
| Yellow fever ... ... ... | 1 | — | 1 |
| Dysentery, Amœbic ... ... | — | — | — |
| „ Bacillary ... ... | 2 | — | 2 |
| Adenitis ... ... ... ... | 1 | 1 | 2 |
| Hæmoglobinuria ... ... ... | 1 | — | 1 |
| Others (minor and general) ... | 21 | 16 | 37 |
| | 37 | 38 | 75 |

B.

*Invalidings.*—There were three invalidings as shown below :—

| No. | Status. | Cause of Invaliding. | Remarks. |
|---|---|---|---|
| 1 | Official ... ... ... | Cerebral hæmorrhage. | |
| 2 | Do. ... ... ... | Neurasthenia. | |
| 3 | Non-official ... ... ... | Gumma of liver. | |

C.

*Deaths.*—There was only one death.

| No. | Status. | Cause of Death. | — |
|---|---|---|---|
| 1 | Non-official ... ... ... | Blackwater Fever. | — |

*Fees Collected.*—The total amount of fees collected was £210 4s. 11d.

D. BURROWS,
*Provincial Medical Officer.*

## CLINICAL LABORATORY ANNUAL REPORT FOR 1914.

Work in the Clinical Laboratory has been continuously in progress throughout the year. Dr. Young has been in charge during the first half of the year and Dr. Butler during the second half.

Dr. Dalziel and Dr. Johnson were seconded from Northern Nigeria for work under the Yellow Fever (West Africa) Commission, and made use of the laboratory until the end of April; a large number of their records were made use of in the hospital and have been included in the figures for the first half of the year.

Mr. Bacot has been employed on work for the Yellow Fever (West Africa) Commission, and has made use of the laboratory since July, but none of his results are recorded here.

Mr. Easmon has been the laboratory assistant throughout the year.

The work of the Clinical Laboratory has been taken up seriously since April, 1913, from which date a Medical Officer has been definitely undertaking the work, though often in addition to other duties; it is from this date that the routine examination of the urine, fæces and night blood of every patient admitted has been insisted on. Other examinations are performed when requested by the Medical Officers in charge of the wards, so that the variety of tests and examinations depends on the Medical Officers.

All records of laboratory work are kept on special forms, which have proved useful in that they keep all the laboratory results for each patient together. The order in which the following statistical returns are made corresponds with the arrangement on this Laboratory form.

1. *Examination of blood for malaria.*—Almost without exception thin films stained with Leishman are made use of. During the last quarter wet films have been frequently examined in addition, to enhance the chances of picking up a case of trypanosomiasis at the same time.

| | 1st Quarter. | | 2nd Quarter. | | 3rd Quarter. | | 4th Quarter. | | Total. |
|---|---|---|---|---|---|---|---|---|---|
| | I.-P. | O.-P. | I.-P. | O.-P. | I.-P. | O.-P. | I.-P. | O.-P. | |
| Subtertian ... ... ... | 21 | 45 | 4 | 20 | 24 | 42 | 12 | 46 | 214 |
| Quartan ... ... ... | 2 | 7 | — | 1 | 2 | 3 | 4 | 39 | 58 |
| Benign ... ... ... | — | — | — | — | — | — | — | 2 | 2 |
| Subtertian and Quartan ... | — | — | — | — | — | — | 1 | 12 | 13 |
| Negative ... ... . | 28 | 47 | 16 | 30 | 20 | 60 | 27 | 100 | 328 |
| Re-examined ... ... ... | — | — | — | — | 3 | — | 16 | — | 19 |
| Total ... ... | 150 | | 71 | | 154 | | 259 | | 634 |

I.-P. = In-Patients. O.-P. = Out-Patients.

Amongst the 615 patients examined, malaria parasites were found in 287, that is 46·6 per cent. The variety of parasites found is shown on page 15 of this Report.

The rarity of benign tertian infections is noticeable, as is also the sudden rise in quartan cases during the last quarter, most of which cases came from the Cline Town end of the town.

The forms described as *Plasmodium tenue* by Stephens are frequently observed, as has been my experience since 1911; they are more commonly met with in quite young children with heavy infections.

I have not attempted to make a malaria spot map, but every district of Freetown appears to be represented.

2. *Examination for trypanosomes.*—The clinical signs of the local form of trypanosomiasis are so ill defined, and the illness so chronic, that it is unusual to recognise the condition, and the parasites are usually found quite by accident.

| | 1st Quarter. | 2nd Quarter. | 3rd Quarter. | 4th Quarter. |
|---|---|---|---|---|
| Positive ... ... ... ... | 1 | 1 | 1 | 1 |
| Negative ... ... .. | 0 | 3 | 1 | 6 |

The parasites found appear to be of the *gambiense* type. One of the cases was from a child who had lived in the Congo; the infection was extremely heavy, and there was most marked glandular enlargement.

3. *Examination for* Microfilaria.—The night blood is almost always the only sample examined, and is taken as a drop on a slide between 10 p.m. and 2 a.m. and allowed to dry; this slide is then dehæmoglobinised and examined wet during the next morning. Should any *Microfilaria* be found, the slide is allowed to dry, and is then fixed and stained with warm weak carbol-fuchsin and re-examined. There is not sufficient time, owing to the routine work to be done, to work out accurately the type of *Microfilaria* found, but my experience is that the embryos are invariably sheathed and appear to conform to the *Microfilaria* type. It is not common to find *Microfilaria* in the day blood, and since 1911 it has not been my experience to come across or even hear of any of the conditions associated with *loa* infections. It would be an advantage to have the types of *Microfilaria* met with locally worked out.

| | 1st Quarter. | 2nd Quarter. | 3rd Quarter. | 4th Quarter. | Totals. |
|---|---|---|---|---|---|
| Night bloods ... ... ... | 292 | 229 | 233 | 210 | 964 |
| Day bloods ... ... ... | — | — | 7 | — | 7 |
| *Microfilaria* found ... ... | 30 | 33 | 5 | 26 | 94 |
| Negative ... ... ... | 262 | 196 | 235 | 184 | 877 |
| Re-examined ... ... ... | — | — | — | 4 | — |

Each of the day bloods examined proved to be negative.

*Microfilaria* were found in 9·7 per cent. of the night bloods examined. In addition to the above hospital cases 118 prisoners at the Freetown Gaol had their night blood examined, with the result that 11·8 per cent. of the cases showed the presence of *Microfilaria.*

The above statistics are obtained from all the local races and tribes, but there are not sufficient figures at present to work out the racial incidence.

4. *Red-cell counts and hæmoglobin estimations.*—These investigations are rarely asked for, and only five have been done on ward cases.

5. *Leucocyte counts.*—These again are rarely asked for, and only five were performed on the ward cases. Further remarks on leucocyte counts will be found under some observations made on cases of ankylostome infections.

### 6. *Urine Examinations.*

| | 1st Quarter. | 2nd Quarter. | 3rd Quarter. | 4th Quarter. | Totals. |
|---|---|---|---|---|---|
| Negative ... ... .. | 115 | 156 | 65 | 92 | 428 |
| Faint trace of albumen ... | — | — | 30 | 52 | 82 |
| Trace of albumen... ... | 164 | 84 | 71 | 49 | 368 |
| Thin cloud of albumen ... | — | — | 45 | 51 | 96 |
| Heavy cloud of albumen ... | 44 | 56 | 14 | 11 | 125 |
| Casts ... ... .. | — | — | 25 | 25 | 50 |
| Glycosuria .. ... ... | 1 | — | — | 2 | 3 |
| Re-examined ... ... | — | — | 45 | 12 | 57 |
| Totals ... ... | 324 | 296 | 295 | 294 | — |

The method employed in testing for albumen has almost invariably been the boiling test, but occasionally it has been supplemented by the salicyl-sulphonic acid test.

It will be seen that out of a total of 1,102 cases 221 or 20·05 per cent. show a cloud of albumen; a further 368 or 33·39 per cent. show a trace of albumen. Further remarks on albuminuria in natives will be given later.

No case of urinary bilharziosis was recorded during the year; it is a comparatively rare disease in Freetown and its neighbourhood.

### 7. *Examination of Fæces.*

| | 1st Quarter. | 2nd Quarter. | 3rd Quarter. | 4th Quarter. | Totals. |
|---|---|---|---|---|---|
| Negative ... ... ... ... | 155 | 129 | 108 | 88 | 480 |
| Ankylostome ... ... ... ... | 37 | 25 | 61 | 57 | 180 |
| Ascaris ... ... ... ... | 32 | 37 | 29 | 29 | 127 |
| Trichocephalus ... ... ... ... | 1 | 10 | 5 | 13 | 29 |
| Ankylostome and *Ascaris* ... ... | 11 | 12 | 21 | 27 | 71 |
| Ankylostome and *Trichocephalus* ... | — | 4 | 4 | 16 | 24 |
| *Ascaris* and *Trichocephalus* ... ... | 4 | 15 | 4 | 4 | 27 |
| Ankylostome, *Ascaris* and *Trichocephalus* ... ... ... ... | — | 1 | — | 15 | 16 |
| Ankylostome, *Tænia* and *Trichocephalus* ... ... ... ... | — | — | 1 | 1 | 2 |
| *Tænia* ... ... ... ... ... | 3 | 6 | 3 | 3 | 15 |
| *Bilharzia* ... ... ... . . | — | — | — | 4 | 4 |
| Amœbæ .. ... ... ... ... | — | 4 | 2 | 4 | 10 |
| *Oxyuris*... ... ... ... ... | 1 | — | — | — | 1 |
| Ankylostome percentage ... ... | 18·6 | 16·7 | 32·3 | 44·4 | 30 |
| Re-examined ... ... ... ... | — | — | 31 | 13 | 44 |
| Totals ... ... ... | 244 | 243 | 269 | 274 | 1,030 |

Out of a total of 986 patients examined, 293, or practically 30 per cent., show the presence of ankylostome ova; it is to be noted that these figures are obtained from patients of all nationalities that are admitted to the Colonial Hospital (including Europeans).

It should also be noted that during the first three-quarters of the year only a single specimen of the actual fæces was examined from each case, whereas in the last quarter about a drachm of each specimen of fæces was washed and centrifuged before examination, so that the ankylostome percentage rose promptly to 44·4 per cent. amongst all classes of patients.

Of special interest are the four cases of rectal bilharziosis found during the last quarter. I believe these are the first recorded cases from this Colony. The ova showed the lateral spine, and in none of the cases was the urinary tract affected. The infection was a scanty one in each case, and was not causing symptoms, and would not have been recognised except for the method employed in examining the fæces. The natives infected came from four different tribes.

### 8. *Examination of Sputum.*

| | 1st Quarter. | 2nd Quarter. | 3rd Quarter. | 4th Quarter. | Totals. |
|---|---|---|---|---|---|
| Tubercle present ... ... | 7 | 10 | 4 | 6 | 27 |
| Spirochætosis ... ... | — | — | — | — | — |
| Negative ... ... ... | 27 | 19 | 13 | 14 | 73 |
| Pneumococci ... ... | 1 | — | — | — | 1 |
| Re-examined ... ... | — | — | 1 | 3 | 4 |
| Totals ... ... | 35 | 29 | 18 | 23 | 105 |

Out of the 100 patients examined 27 showed the presence of tubercle bacilli. It is scarcely necessary to point out that the sputum was only examined because the clinical condition suggested it in these cases, so that the figures do not represent the result of routine examination of all sputa.

In the cases showing tubercle bacilli the most noticeable point is the massive infection present, quite different to the usual phthisical sputum that is met with in England. The cases run an extremely rapid and fatal course.

The habits of the Freetown population are well adapted for the spread of this disease.

A tuberculosis spot map has been attempted for Freetown, but owing to the great difficulty in getting accurate addresses from the patients this has had to be excluded. It is sufficient to mention that cases appear to come in equal proportion from all parts of Freetown.

9. *Examination of pus from different sources.*—Pus from the urethra or conjunctiva form the usual sources.

| | 1st Quarter. | 2nd Quarter. | 3rd Quarter. | 4th Quarter. | Totals. |
|---|---|---|---|---|---|
| Gonococci ... ... | 2 | — | 5 | 2 | 9 |
| Negative ... ... | — | — | 1 | — | 1 |

Two of the patients in whom gonococci were found in the urethral pus were aged three and six years respectively.

10. *Agglutination reactions.*—These have been performed on sixteen patients, using typhoid and para-typhoid A. and B. on each occasion. Five results have been classed as positive, though in only one case was a really marked reaction obtained. In the case alluded to, the patient was an European official who had completed six months of his tour, and the reaction showed marked agglutination with 1 in 500 dilution in fifteen minutes. The reaction was performed in the second week of the illness.

The cultures of the three bacilli were obtained during last April from the R.S.M.C. Laboratory, and have been regularly sub-cultured.

11. *Wassermann reactions.*—Dr. Johnson, during his work for the Yellow Fever (West Africa) Commission, started to perform these reactions with marked success, and since April I have carried on these tests. The advantages are particularly obvious since the administration of Salvarsan has been commenced in the hospital. The Amboceptor has been obtained in monthly supplies from home, and is found to keep satisfactorily in a cool cupboard.

The Antigen was prepared by Dr. Johnson, who also made all the preliminary titrations.

Stern's method of performing the test has been mainly employed, but recently a modification of the Hecht-Flemming method has been tried. The results obtained have been extraordinarily " clean."

Exclusive of controls and re-examined cases, 78 patients have been examined; positive results were given in 57 cases, and 21 were returned as negative.

12. *Vaccines.*—Several staphylococcal vaccines have been prepared, and in one case the effect of treatment was watched by estimations of the phagocytic index. Excellent results were obtained in each case.

13. *General.*—Gland punctures were performed for diagnostic purposes in twelve cases, in four of which trypanosomes were found.

Scrapings from ulcers and leprous nodules have been made.

Several puncture fluids have been examined, and a few investigations for medico-legal evidence have been made. Several slides of cattle blood were sent by the Veterinary Officer, but no satisfactory results could be obtained from them.

Nine samples of water have been sent for chemical analysis and have been reported upon.

14. *Post-mortems.*—Thirty-two post-mortems are recorded as having been done during the year. Eleven of these were on bodies brought in dead and the examinations were made at the request of the Coroner. This is a poor total amongst the 110 deaths at the hospital during the year, but is chiefly explained by the objections raised by the relatives.

Tuberculosis in some form was the cause of death in six, while pneumonia, dysentery and cirrhosis of the liver accounted for four each. Portions of tissue are removed when thought necessary and are microscopically examined.

15. *Rat examinations for plague.*—During most of the year this was not done with any regularity, but a routine examination was started in December and 54 rats were examined. Among 20 sent for examination, the following groups were represented :—

| | |
|---|---|
| *Mus rattus* ... ... ... ... ... | 51 |
| *Mus norvegicus* ... ... ... ... ... | 1 |
| Mouse ... ... ... ... .... ... | 2 |

The high proportion of *Mus rattus* depended probably on the fact that most of the rats came from the centre of the town, and not from districts near the wharves and warehouses.

The majority of the rats had been caught in spring traps and were therefore brought in dead, and the examination was rather unsatisfactory, and in many cases quite impossible owing to decomposition. Ectoparasites were collected in each case; fleas, mites and lice were usually found on the live animals.

*Xenopsylla brazilensis* was the commoner flea met with on *Mus rattus*, though *Xenopsylla cheopis* is also met with.

Smears were taken from the spleen and blood, and in no case has anything resembling *Bacillus pestis* been found.

Among 26 of the blood films examined, 9 showed *Trypanosoma lewisi*, and one case showed *Grahamella*.

Intestinal parasites were frequently met with, the most common being *Echinorhynchus*, *Spiroptera* and *Hymenolepis*.

Details as to the district where the rats were found or caught are obtained in all cases.

The sum of one penny is paid for each rat brought to the Colonial Hospital.

The total number of rats received at the hospital during the year was 1,750.

G. G. BUTLER.
*Medical Officer.*

*March* 31*st*, 1915.

## REPORT ON THE FREETOWN PRISON FOR THE YEAR 1914.

I took over charge of the prison in November last from Dr. Easmon, and I am therefore guided to a large extent by previous quarterly reports. During the year the following Medical Officers were in charge of the prison, viz.: Dr. Young in January and February; Dr. Butler, March to August; and Dr. Easmon, September to October.

*General Health.*—There was an outbreak of dysentery during the June quarter, which was said to have been brought on by contamination of the water supplied for drinking purposes. Steps were taken soon after the outbreak to have this remedied by having the water boiled, which has been done ever since. The outbreak ceased during the rains, and there were no fresh cases up to the end of the year.

*Sanitation.*—The sanitary arrangements of the prison were good and well maintained. During the first quarter of the year mosquitoes and bugs were frequently noticed in the cells, but energetic measures were taken for their riddance, with the result that a considerable decrease was affected.

*Infirmary.*—The difficulty hitherto experienced of treating all cases in the prison infirmary owing to incomplete equipment was got over during the year.

I regret that owing to my short connection of only two months with the prison in 1914, I am unable to furnish as exhaustive a report as under ordinary circumstances I would have done.

M. L. JARRETT,
*Medical Officer.*

FREETOWN PRISON,
2*nd March*, 1915.

# STATISTICAL REPORT FOR THE YEAR 1914

*Of in-patients treated during the year.*

## In-Patient Cases.

| | March Quarter.<br>26. | June Quarter.<br>78. | September Quarter.<br>54. | December Quarter.<br>36. |
|---|---|---|---|---|
| Cured ... ... | 13 | 48 | 26 | 17 |
| Relieved ... | 2 | 9 | 23 | 16 |
| Died ... ... | 3 | 6 | 14 | 2 |
| Not relieved ... | — | — | — | 1 |

## *Causes of Death.*

| | | |
|---|---|---|
| March Quarter ... ... | Cirrhosis of Liver ... ... ... ... | 1 |
| " ... ... | Subacute nephritis ... ... ... ... | 2 |
| June Quarter ... ... | Acute bacillary dysentery ... ... | 3 |
| " ... ... | Myocarditis ... ... ... ... ... | 1 |
| " ... ... | Acute bronchitis ... ... ... ... | 1 |
| " ... ... | Broncho-pneumonia ... ... ... ... | 1 |
| September Quarter ... ... | Synovitis ... ... ... ... ... | 1 |
| " ... ... | Bacillary dysentery ... ... ... ... | 2 |
| " ... ... | Pneumonia ... ... ... ... ... | 1 |
| " ... ... | Morbus cordis ... ... ... ... ... | 1 |
| " ... ... | Myocarditis (fatty degeneration) ... ... | 2 |
| " ... ... | Diarrhœa ... ... ... ... ... | 2 |
| " ... ... | Ankylostomiasis ... ... ... ... | 4 |
| " ... ... | Stricture, extravasation of urine ... ... | 1 |
| December Quarter ... ... | Endocarditis ... ... ... ... ... | 1 |
| " ... ... | Apoplexy ... ... ... ... ... | 1 |

## Out-Patient Cases.

| | MALES. | | FEMALES. | |
|---|---|---|---|---|
| | New cases. | Subsequent attendances. | New cases. | Subsequent attendances. |
| March Quarter ... | 476 | 1,598 | 7 | 7 |
| June Quarter ... | 483 | 459 | — | — |
| September Quarter ... | 268 | 512 | — | — |
| December Quarter ... | 215 | 821 | — | — |

## *Daily Average of Prisoners.*

| | |
|---|---|
| March Quarter ... ... ... ... ... | 263 |
| June Quarter ... ... ... ... ... | 243 |
| September Quarter ... ... ... ... | 230 |
| December Quarter ... ... ... ... | 239 |

## *Examined for Cells.*

| | |
|---|---|
| March Quarter ... ... ... ... ... | 138 |
| June Quarter ... ... ... ... ... | 194 |
| September Quarter ... ... ... ... | 172 |
| December Quarter ... ... ... ... | 176 |

*Examined for Corporal Punishment.*

| | |
|---|---|
| March Quarter | 4 |
| June Quarter | 4 |
| September Quarter | — |
| December Quarter | 4 |

*New Comers Examined.*

| | |
|---|---|
| March Quarter | 207 |
| June Quarter | 193 |
| September Quarter | 227 |
| December Quarter | 211 |

*Executions.*

Nil.

M. L. JARRETT,
*Medical Officer.*

FREETOWN PRISON,
*2nd March*, 1915.

## CLINE TOWN DISPENSARY.

## ANNUAL REPORT FOR 1914.

The dispensary has been in the charge of Drs. Whitehead, Clark, and Mayhew.

The total number of attendances was 10,505, of which 6,023 were new cases.

Dyspepsia, constipation, tracheitis, bronchitis and rheumatism, mostly of a chronic nature connected with the joints, were the chief contributors to this total.

Of the dysentery cases, all but two were due to *Entamœba tetragena.*

During the last quarter of the year as many quartan infections were diagnosed microscopically as of the subtertian variety.

One case of typhoid fever was recorded in a young native girl living in Freetown. She had a fairly typical attack; the temperature came down by lysis during the fourth week she was under observation. Dr. Butler, at the Colonial Hospital, did a Widal test; her serum agglutinated the *B. typhosus* in a 1–50 dilution in 20 minutes.

One case of hæmoglobinuria occurred amongst the Europeans connected with the railway at Cline Town. The attack was a mild one; the patient had had blackwater fever in 1910.

The number of abortions and deaths in very early infancy, elicited on enquiry, together with ulcers, periosteal swellings, cutaneous gummata, and indefinite pains in the long bones, which rapidly improved by the administration of mercury and the iodides, leads one to the conclusion that syphilis is very prevalent.

The health of the Europeans at Cline Town was fair. Malarial fever and stomach troubles were the chief causes of sickness.

Amongst the native employees, wounds of a minor nature were common. During the year a mess room was put up for their use, where they have their food cooked for them and can eat it in clean surroundings.

A new Rest House, consisting of three rooms, raised on concrete pillars, was put up in the Railway Compound for the benefit of employees whose work is up country.

The sanitation in the Railway Compound is good; there are only one or two pieces of waste land, the chief danger arising, as was pointed out last year, from spare fittings and such-like in which water can collect.

Sanitary gangs, under the Maintenance Engineer, are engaged in emptying latrines, burying tins and bottles, burning rubbish and keeping the grass down round the bungalows.

All the bungalows now get their water supply from the town main, an outbreak of dysentery having shown that the stream, which used to supply some of them, was polluted by a village near its source.

E. H. MAYHEW,

*Medical Officer.*

## KISSY INSTITUTIONS.

I was in charge of the institutions throughout the year.

*Lunatic Asylum.*—There were 78 males and 39 females at the beginning of the year, making a total of 149 patients under treatment. Twelve males and 6 females were found to be relieved and were discharged to the care of their friends; among these was included a German prisoner of war, who had been under treatment for 32 days and was sent to the Colonial Hospital on the 10th of December, 1914. One patient absconded and 13 died, leaving a total of 84 males and 33 females at the end of the year. The deaths were due to general paralysis of the insane, chronic Bright's disease, asthenia and heart failure, syphilitic exhaustion, acute nephritis, epilepsy, exhaustion and general debility.

A number of male lunatics who are lucid and physically fit are employed in attending to the garden and do sanitary work. The latrine buckets are cleaned daily and new ones put in when necessary. All rubbish heaps are removed and burned. Excreta are buried in trenches in a suitable site.

The female lunatics who are mentally and physically fit do the washing and mending of their clothes.

Both male and female lunatics are always in charge of reliable attendants.

The food and water supply were good.

The discipline of the institutions was well maintained throughout the year.

There were no epidemics amongst the inmates of the institutions throughout the year.

*Ankylostoma* infection has been dealt with in quarterly reports during the year; 13 cases have been reported.

There have been no changes in the staff.

*Female Incurable Hospital.*—There were 29 patients at the beginning of the year. Forty-one patients were admitted during the year, making a total of 70 patients under treatment. Of these 28 patients were found to be relieved and were discharged and 16 died, leaving a total of 26 patients in hospital at the end of the year.

The deaths were due to syphilis, paralysis, senility, bronchial asthma, asthenia and heart failure, ascites, and œsophageal obstruction.

*Male Incurable Hospital.*—At the beginning of the year there were 70 patients; during the year 97 patients were admitted, a total of 167 patients. Of these, 53 died and 64 were relieved and discharged, leaving a total of 50 patients at the end of the year.

The deaths were due to paralysis, syphilis, chronic diarrhœa, chronic rheumatism, phthisis, chronic ulcer, ascites, exhaustion due to old age, epileptic exhaustion and general debility.

The death rate at this hospital is always high, owing to the advanced stage in which many of the cases are admitted.

During the year under review 12 syphilitic cases of the tertiary form were sent to the Colonial Hospital and were placed under the Salvarsan (606) treatment, with excellent results.

*Leper Asylum.*—At the beginning of the year there were 4 patients; 2 were admitted, 1 died and 4 absconded.

*Infectious Diseases Hospital.*—Only 4 cases of small-pox and 5 of chicken-pox were admitted under treatment during the year.

The cases were successfully treated and were all discharged cured.

During the year a new mortuary was built, and the hospital was rendered completely mosquito-proof.

*Meteorological Observations.*—The highest maximum shade temperature registered was 96° F., on March 13th and 16th, and the lowest minimum shade temperature registered was 54° F., on July 29th.

The rainfall for the year was 99·75 inches.

*Quarantine.*—Passengers per S.S. "Prah" under quarantine were placed under observation on the 7th August, 1914.

Seven female and five male passengers per S.S. "Ilaro" were placed under observation on the 20th October.

These passengers were from Dakar, where there was plague.

There were no suspicious cases amongst them, and they were all liberated in due course.

*Kissy Dispensary.*

| | |
|---|---|
| New cases ... ... ... ... ... ... | 1,152 |
| Subsequent attendances ... ... ... ... | 1,876 |
| Total ... ... | 3,028 |

An increase of 157 over the total for 1913.

*Wellington.*

| | |
|---|---|
| New cases ... ... ... ... ... ... | 420 |
| Subsequent attendances ... ... ... ... | 1,078 |
| Total ... ... | 1,498 |

W. F. CAMPBELL,
*Medical Officer.*

KISSY,
18*th January*, 1915.

## SHERBRO DISTRICT.

The station was in charge of Dr. Rollason until the 14th March, of Dr. Clearkin until the 20th April, and during the remainder of the year under my charge.

The District Commissioner and Medical Officer are the only two European officials permanently stationed here. Neither was on the sick list. Eight Europeans resided here for a total of about four months; one of these was on the sick list for six days for bacillary dysentery, contracted outside the district.

The health of the native officials has been very good; there have been no deaths nor invalidings, and one officer only, a case of chronic iritis, was sent to the Freetown Hospital.

Excluding police and boatmen, the number of officers was 41; 23 were placed on the sick list 24 times for an average of 8·6 days.

The non-official European residents numbered between 40 and 50. There were no deaths, but five were invalided, four of them for non-climatic diseases.

No epidemics occurred, with the exception of a few mild cases of measles, which were the residuary to last year's outbreak.

The in-patients numbered 117, an increase of 65 over the previous year. The deaths were twelve, the causes being :—

| | |
|---|---|
| Fractured spine ... ... ... ... ... | 2 |
| Amœbic dysentery ... ... ... ... ... | 2 |
| Strangulated hernia ... ... ... ... | 1 |
| Tuberculosis ... ... ... ... ... | 1 |
| Pneumonia ... ... ... ... ... | 1 |
| Cardiac disease ... ... ... ... ... | 1 |
| Elephantiasis scroti ... ... ... ... | 1 |
| Duodenal ulcer ... ... ... ... ... | 1 |
| Encephalitis ... ... ... ... ... | 1 |
| Ulcer and caries ... ... ... ... ... | 1 |

The out-patients numbered 1,498, an increase of 404 over the previous year. Ulcers, arthritis, diseases of the digestive system, bronchitis and gonorrhœa are the commonest diseases seen. Many of the patients come long distances from the numerous small villages on the opposite coast of this island.

Ten operations were performed under chloroform, an increase of nine over the year 1913. There were two deaths, one a case of strangulated hernia of four days' duration, the other a very large elephantiasis scroti, who developed acute mania on the second day after the operation and continuously removed his dressings.

No case was admitted into the Infectious Diseases Hospital during the year.

The health of the prisoners has been on the whole excellent; there have been no deaths or discharges on medical grounds. The prison is regularly visited by the Medical Officer, and is kept extremely clean. Three prisoners were admitted into hospital. A regular examination for ankylostomiasis was carried out for six months in the case of all prisoners, and about 70 per cent. were found infected.

A site for a new prison has been chosen near the hospital.

*York Island Dispensary.*—The Medical Officer has visited York Island weekly in order to hold a dispensary at the police station.

As in former years a medicine chest is carried over in the boat, and it is only very rarely that patients require to have further treatment in Bonthe.

The number of persons treated was 203, an increase of 95 over the previous year. Of this number 156 were seen in the second six months of the year.

The prevailing diseases are constipation, intestinal worms, bronchitis and ulcers.

C. H. ALLAN,
*Medical Officer.*

BONTHE,
SHERBRO DISTRICT,
*6th January,* 1915.

## ANNUAL REPORT OF THE NORTHERN SHERBRO DISTRICT.

I took over charge of the district from Dr. Nicholson on July 19th, 1914, at Bandajuma, the headquarters of the Medical Officer being at that station, as he was in medical charge of a company of the West African Frontier Force. On the outbreak of war the District Commissioner at Pujehun asked me to come to his station, the company of Frontiers at Bandajuma having gone to Daru on mobilisation, and there being consequently very little work at that station. I came to Pujehun on August 8th, 1914, and later obtained the permission of the Principal Medical Officer to stay permanently there. The quarters for the officials, the District Commissioner, the Medical Officer and the Assistant District Commissioners had just been completed, as were also the hospital and the dispenser's quarters.

I occupied the quarters for the Medical Officer on my arrival.

*Water Supply.*—Water is obtained from two sources: (1) Two large tanks are attached to each of the official's quarters to collect water in the rainy season. (2) A well sunk about 55 feet was completed in November, and up to date is giving a plentiful supply of water. The water is good.

*Latrines.*—The pan system of latrines is used in the European quarters, the prisoners attending to them. The pit system is used in most of the native quarters. I hope to have the pan system in use in the native quarters at an early date.

*Night Soil.*—This is buried in shallow trenches.

The health of the European officers for the past year was good, only one case of illness (a case of dysentery) coming under my notice.

1,979 cases were treated in the district during the year; with the exception of about 10 or 12 who were treated in the bush hospital at Bandajuma, all were treated as external cases.

The principal diseases treated at the dispensary were malaria, syphilis, gonorrhœa, and craw-craw.

J. M. O'CONNELL,
*Medical Officer.*

PUJEHUN,
NORTHERN SHERBRO DISTRICT,
*11th January,* 1915.

## ANNUAL REPORT FOR MOYAMBA.

Dr. Bower was in charge up to February 6th, Dr. Wood-Mason up to December 8th, when I took over from him.

*Health of Europeans.*—This was on the whole fairly good. There were eight Europeans placed on the sick list as follows :—

Three with malaria.
One from the effects of exposure to the sun.
One from chill.
One with boils.
One from debility.
One from ptomaine poisoning.

No non-official Europeans were treated.

*Health of Native Officials.*—There were twenty-five cases of illness amongst the native staff, chiefly of a minor character excepting two, one a case of appendicitis, which died, and the other a case of malaria which was sent to the Colonial Hospital.

*In-Patients.*—There was a decrease in the number of cases treated in hospital, only 68 against 113 last year. There were 11 deaths. Three from strangulated hernia, one from tonsillitis, one from appendicitis, one from acute nephritis, one from starvation, one from sleeping sickness, one from retention of urine, one from hepatic abscess and one from mitral regurgitation.

Altogether, 1,885 new cases were seen, with 1,877 subsequent attendances, making a total of 3,762 cases seen in the dispensary.

*Meteorological Observations.*—Total rainfall : 77·19 inches. Greatest rainfall in one day : 3·80 inches. The highest temperature was reached on March 1st, namely 102° F. The lowest temperature was January 9th, namely 49° F. The greatest range of temperature on the same day was 44° F.

*Sanitation.*—The District Commissioner's and the Medical Officer's bungalows are situated on the top of a hill to the west of the railway. The Assistant District Commissioner's bungalow is lower down on the same hill nearer the railway.

*Water Supply.*—Water is brought to these three houses along galvanized iron pipes from a dam across a stream on the hill at the back of the houses.

*Latrines.*—The dry earth system is employed for the disposal of night soil and the trenching ground is frequently inspected.

*Court Messengers' Lines.*—These are well-laid out and are kept clean.

*Boia.*—The houses of all second-class officials are inspected monthly, special attention being paid to the filters and mosquito nets.

One European suffering from yellow fever was sent to the Nursing Home in Freetown.

W. A. NICHOLSON,
*Medical Officer.*

MOYAMBA,
23*rd January*, 1915.

## ANNUAL MEDICAL REPORT FOR MAKENE, 1914.

At the beginning of the year the Railway Construction Camp was at Makump. In July it had gradually been shifted with its headquarters at Makene.

On the 9th May a company of the West African Frontier Force from Daru were stationed at Makene, and the Medical Officer on taking up his duties at Makene took charge of them as well as the Camp. In the beginning of August the company went down to Songo, a corporal and five privates being left behind.

The total number of white officials was 26; 20 were on the sick list. There were no deaths.

The total number of native officials was 6; 20 were on the sick list. There was one death from malarial fever (seen for the first time six hours before death).

There were no deaths among the non-official white community.

Sanitary conditions are on the whole satisfactory.

There have been no cases of small-pox.

W. A. YOUNG,
*Medical Officer.*

MAKENE,
*January 2nd*, 1915.

## ANNUAL MEDICAL REPORT FOR BO, 1914.

I took over from Dr. Semple on February 28th, 1914, and have been in charge since.

The following officials (European) are resident in the district :—

| | | | |
|---|---|---|---|
| Bo | Railway | 7 | (1st class, 2; 2nd class, 5.) |
| | School | 2 | |
| | Medical | 1 | |
| Mattru | Railway | 1 | (Platelayer.) |
| Gerihun | ,, | 1 | |
| Blama | ,, | 1 | |
| Kennema | ,, | 5 | (Provincial administration.) |
| | | 18 | |

Non-official Europeans are as follows :—

| | |
|---|---|
| Bo | 4 |
| Gerihun | 3 |
| Blama | 8 |
| | 15 |

There have been four non-official Europeans at Kennema during part of the year, but they left some time ago.

During the year 2,392 new cases were treated in the out-patient department, being an increase of 486 on 1913. The number of old cases treated was 1,550, being an increase of 201 on 1913. The total number of cases treated in this department was 3,942, the total excess over 1913 being 687.

The chief diseases treated were :—Constipation (329), bronchitis (243), ulcer (222), rheumatism (213), malaria (126), dyspepsia (113), diarrhœa (61), and gonorrhœa (48).

During the year 1914, 78 in-patients were treated in hospital, being a decrease of 13 on 1913. There were three deaths—dysentery, secondary gangrene, and following an operation on elephantiasis.

There have been six operations on natives, as follows :—Elephantiasis, amputation of leg, dilatation of stricture, radical cure of hydrocele, excision of fibromatous tumour of sole, and circumcision. There has been one operation on a European, namely, excision of carbuncle.

The health of European officials in Bo has been good on the whole, the total number of Europeans placed on the sick list being 26, most of the illnesses not being of a serious nature, and being chiefly among engine-drivers, who are much exposed owing to the nature of their work. Four patients were invalided to Freetown. There have been no deaths.

The total number of days was 119. Average 4·56.

There have been 73 native officials and Government employees on the sick list, the total number of days being 453. Average 6·20.

There are about 100 pupils at the Bo School. There has not been any serious illness among them during the year, although there has been a small outbreak of mumps and chicken-pox. There have been no deaths. The boys are attended to daily in the dispensary and in the school hospital, and periodical inspections are made.

During the last half of the year their fæces were examined for ankylostomiasis; the result will be sent in a separate report.

J. McCONAGHY,
*Medical Officer.*

Bo,
*11th January,* 1915.

## ANNUAL MEDICAL REPORT FOR KENNEMA, 1914.

This station has been visited on an average, once a week, by the Medical Officer, Bo.

During the year 2,088 new cases, with 1,716 subsequent attendances, were treated in the dispensary, making a total of 3,804.

The prevalent diseases were rheumatism, malaria, gonorrhœa, and diseases of the skin, respiratory and digestive systems.

The average number of European officials was 11, among which there are 6 entries on the sick list, the diseases being malaria and synovitis; total number of days 42. The health of European officials has on the whole been very good.

The average number of native officials in the station is 18. There are 27 entries on the sick list.

The number of prisoners in the Kennema gaol during the year 1914 was 198 males, 3 females—total 201. There was one death, the cause being chronic Bright's diseases. One operation was performed in the prison, namely radical cure of testicular hernia. There were 11 cases of amœbic dysentery, all of which recovered.

The health of the native officials has been very good on the whole.

J. McCONAGHY,
*Medical Officer.*

Bo,
*11th January,* 1915.

## ANNUAL REPORT FOR DARU, 1914.

| | |
|---|---|
| Number of out-patients ... ... ... ... | 1,920 |
| Subsequent attendances ... ... ... ... | 1,057 |
| Total ... ... | 2,977 |

*Principal Diseases.*—Constipation, bronchitis, gonorrhœa, subtertian malaria, and various wounds.

*Number of in-patients treated.*—463. Deaths, 3—eclampsia, cerebral tumour and aneurism.

Ankylostomiasis, subtertian malaria, diarrhœa, gonorrhœa and dysentery (amœbic) were the chief causes of illness.

Fifteen operations were performed under chloroform anæsthesia, as follows:—

| | |
|---|---|
| Dilatation of stricture ... ... ... ... ... | 1 |
| Amputation of hand ... ... ... ... ... | 1 |
| Removal of tumour of hand ... ... ... ... | 1 |
| Circumcision ... ... ... ... ... ... | 4 |
| Phlebitis ... ... ... ... ... ... ... | 1 |
| Incision of abscess of neck ... ... ... ... | 1 |
| ,, ,, ,, ,, foot ... ... ... ... | 1 |
| ,, ,, Bubo ... ... ... ... ... ... | 3 |
| Excision of sinus (old bubo) ... ... ... ... | 1 |
| Radical cure inguinal hernia ... ... ... ... | 1 |
| Total ... ... | 15 |

No deaths.

Eight non-official Europeans were resident in the district, with three cases of illness amongst them. One had blackwater fever, the other two subtertian malaria. All recovered.

There were 22 officers of the West African Frontier Force stationed at Daru for various periods during the year; three Medical Officers were stationed at Daru also for various periods and one Foreman Platelayer, Railway Department; making a total of 26 Government European officials during the year, with 15 cases of illness. Two were invalided.

| | |
|---|---|
| Total number of days illness ... ... ... ... | 99 |
| Average number of days illness ... ... ... | 3·8 |

Malarial fever and dysentery were the chief causes of illness.

Number of days illness amongst non-European Government officials:—103. Malarial fever was the chief cause of illness.

No case of trypanosomiasis, yellow fever or small-pox was seen.

E. J. POWELL.

## ANNUAL REPORT.—BATKANU, KARENE DISTRICT,

## YEAR ENDING 31ST DECEMBER, 1914.

### MEDICAL.

During the year the station has been in charge of the following Medical Officers:—Drs. Murphy, Bower and Clearkin. The latter has been in charge since May.

*European Officials.*—These consisted of the District Commissioner, Assistant District Commissioner and Medical Officer.

*Native Staff.*—This consisted of 46 persons :—

| | |
|---|---|
| Financial Assistant | 1 |
| Clerks | 3 |
| Medical Dispenser | 1 |
| Postmaster | 1 |
| Gaoler | 1 |
| Court Messengers | 32 |
| Warders | 6 |
| Mail Carrier | 1 |

*Health of the Station.*—This has been fair. Of the European Staff one was invalided, suffering from adenitis and neurasthenia. One was twice on the sick list for a total of 8 days, suffering from malaria. Another was four times on the sick list for a total of 12 days, suffering from malaria.

Thus there was a total of four persons on the sick list for a total of 32 days.

*Native Staff.*—Two Court Messengers were invalided out of the force, one suffering from sciatica and tertiary syphilis, and the other from asthma and mitral regurgitation.

The Postmaster was recommended for a change of station, owing to repeated attacks of malaria with subsequent anæmia and debility.
There were 21 native officials on the sick list for a total of 256 days.

*Hospital.*—In-patients numbered 60, showing an increase of 32 on last year.

*Deaths.*—The number of deaths in hospital was the same as last year, namely, two. The cause of death was one, hemiplegia with cardiac failure; two, a patient who died the day of admission from "ulcer and debility."

*Operations.*—Six operations were performed :—Radical cure of hernia, elephantiasis of scrotum removed, enchondroma, relief of strangulated hernia, and ischio-rectal abscess, evacuated and scraped.

*Out-Patients.*—The number of out-patients was 1,026, which was a decrease of 94 on last year. Subsequent attendances were 1,642, the number for last year being 2,093.

The common complaints were digestive troubles, ulcers, gonorrhœa and rheumatism.

Four mosquito-proof rooms were erected in the hospital last May. A small hut has been erected outside the hospital to serve as a kitchen.

*Port Lokkoh.*—This dispensary has been visited monthly. A large number of patients attend it.

*Epidemics.*—In May last there was a slight outbreak of small-pox at Mabanta. Twelve cases were observed. There were two cases at Batkanu.

*Special Diseases.*—Syphilis is common. The tertiary stage is the one usually observed. I have seen no case of hereditary syphilis. Leprosy is not at all uncommon. Gonorrhœa and soft chancres are a very common combination. There was one case of blackwater fever.

### METEOROLOGICAL OBSERVATIONS.

The rainfall for the past year was 88·26 inches, which is the lowest recorded in this station. Maximum temperature was 103° in the shade, and the minimum 56°.

P. A. CLEARKIN,
*Medical Officer, Karene District.*

BATKANU,
*5th January,* 1915.

## ANNUAL REPORT, 1914.—KOINADUGU DISTRICT.

During the first six months of the year Dr. Pearson was in charge until Dr. Wood returned from leave.

*General Health of the Station.*—The health of the European officials remained good, with the exception of a member of the Audit Department on patrol from Freetown, who suffered from "fever."

Three of the subordinate staff were on the sick list for a total of thirteen days. The Court Messenger Force of about thirty-six men had a total of 164 days off duty for illness, the greater number from a mild form of malignant malaria.

*In-patients.*—Thirty-four patients were admitted to hospital during the year, while one remained over from 1913, and three were still in hospital on December 31st. Beds were occupied for a total of 1,015 days.

Fourteen operations were performed, chiefly major, while one out-patient operation, extensive excision of glands at the elbow, was done under a local anæsthetic. These operations were:—Phimosis, 1; lipoma, 1; removal of tibial sequestrum, 1; removal of masses of enlarged glands of the neck, 1; excision of scrotal sinus discharging from a focus in the testicle, 1; radical cure of hernia, 2; radical cure of hydrocele (single or double), 4; and amputation of elephantoid scrotum, 3. These were all successful with the exception of one extremely large elephantiasis; the patient died a short time after the operation. A death from pneumonia made the total number of deaths for the year two. Of the total number of patients admitted, sixteen were cured, ten were relieved, while four were discharged or left of their own wish, with little or no improvement.

In the Annual Report for 1913 I commented on the great increase in hospital work, but if the figures given there be compared with those now given, it will be seen how very largely they have been increased this year, and I am certain the next few years will show a rapidly growing importance in this branch of the work.

*Out-patients.*—Here also there was a considerable increase, the number of new cases being 969 (1913—826), while there were 670 (1913—476) old cases or subsequent attendances, making a total for the year of 1,639. With the approval of the Principal Medical Officer, no charge was made for medicines.

### DISEASES.

In order of frequency these were:—Bronchial, 16 per cent.; skin disease, 16 per cent. (including ulcers); rheumatic diseases, 10 per cent.; malaria, 7 per cent.; these making up about 50 per cent. of the total.

*Venereal Disease.*—As pointed out last year, this is increasing, and will probably tend to do so as the railway opens up the district.

*Trypanosomiasis.*—Only one definite case was seen, with another that may possibly be one. A special report is forwarded.

*Malaria.*—Films from 60 persons were examined during the last six months, and malaria parasites or pigmented leucocytes found in 30. Unfortunately no laboratory record was kept during the first half of the year. Altogether 47 cases were seen in the dispensary, 21 being diagnosed microscopically, the remainder on clinical grounds only. Practically all were of the æstivo-autumnal type (subtertian or malignant), although some were indefinite, and one or two may have been quartan. No definite benign tertian cases were seen. A special investigation into the various aspects of carrier and incidence of malaria was begun, and full details are given in a separate preliminary report.

*Spleen Index.*—Nearly 2,000 children were examined for enlargement of the spleen; the examinations were spread over both dry season and the rains, the index being found to be about 25 per cent. These include both Dr. Pearson's and my own results. A full analysis is given in the malaria report.

*Filariasis.*—This does not impress one as being anything like so prevalent as in some of the other districts, if one judges by the number of cases of elephantiasis usually seen; yet, on examining the night blood of thirty-seven prisoners by the thick film method, I found *Microfilaria*, chiefly of the sheathed type, in fourteen, that is in 37 per cent. A few films of day blood were examined, but neither in these nor in those examined for malaria or trypanosomiasis were any *Microfilaria* seen.

*Amœbiasis.*—Five cases were seen of amœbic dysentery, diagnosed by the microscope, while eight cases of amœbic hepatitis (clinical or rapidly improving under treatment by ipecacuanha) were also met with, amœbæ being found in the stools of two. It is probable that amœbic infection is much more common, several suspicious cases being seen, but the usual difficulty of obtaining specimens of the fæces for diagnostic purposes has already been mentioned.

*Scorpion Sting.*—Ten cases among prisoners, hammock boys and the sanitary gang were treated. The reason for mentioning them here is that the majority were so severe that the patient was incapacitated for several days, the limb swelling and the pain lasting for two or more days, only being kept under control by morphia.

*Yaws.*—Very few cases of this disease are brought to the dispensary, it being regarded as a childish ailment which cannot be escaped, but at Kabinkola I found an epidemic outbreak of over a hundred cases.

*Small-pox.*—No outbreak was heard of during the year, although Dr. Pearson reported a suspicious case at Kabinkola.

## VACCINATION.

Very little was done, a total of 287 as against 1,167 in 1913. Of these, 181 were successful, 21 unsuccessful, while 85 were not seen.

## METEOROLOGICAL.

As usual, observations were regularly taken throughout the year. The highest maximum was 103° on March 20th, the lowest minimum 50° on December 21st.

The rainfall was only 74·11 inches, as against 87·47 inches last year. The highest fall on one day was 4·2 inches on July 15th.

### SANITATION.

The station was kept in exceedingly good order during the whole year, the sanitary gang having been greatly increased. Very much less patrolling than usual was done, the Medical Officer on two occasions not leaving the station for nearly three months. Altogether he was absent from the station for 92 days. A large part of the district remained entirely unvisited, but in most of the towns inspected a steady though slow improvement could be seen. Flies, etc., were steadily collected at the places visited and sent to the bureau for identification.

JOHN Y. WOOD,
*Medical Officer.*

## ANNUAL REPORT FOR WATERLOO, HEADQUARTERS DISTRICT, FOR 1914.

During the greater part of the year this district was under the charge of Dr. Taylor. There is no permanent hospital here, but there is a dispensary and also a dispenser in charge.

*General Health.*—The general health of native officials and court messengers has remained good throughout the year. Only one death occurred amongst the civil police. The health of the European officials has been excellent.

*Dispensary.*—The number of cases treated in the dispensary was as follows :—New cases, 2,211; old cases, 2,067; total treated, 4,278.

The prevailing complaints were as follows :—Constipation, rheumatism, intestinal parasites, dyspepsia, respiratory diseases, malarial fever, ulcers, skin diseases and debility.

There was an outbreak of chicken-pox, which occurred amongst the boys of the Seventh Day Adventist Mission at Waterloo. Early isolation and suitable treatment in each case were successful in preventing any occurrence or spread of the disease in the district. There was no outbreak of small-pox.

*Sanitation.*—The Sanitary Department at Waterloo consists of the Medical Officer, a Sanitary Inspector and a gang of four men.

The District Commissioner's quarters, barracks, offices, court yard, police station, railway station, and the near villages, as well as Hastings and Songo Town (where there is a detachment of the West African Frontier Force since the proclamation of war), were frequently visited by me as well as the Inspector of Sanitation.

I am pleased to find that at Waterloo and also the near villages the people have realised the true meaning of the word sanitation, and that the erroneous opinion which some of our people had with regard to the measures adopted for the extension of this great work is now gradually losing ground.

Old bottles, tins, juju pots, old plates, broken calabashes, iron pots, and many other combustibles are not now easily met with in the yards of even the houses occupied by some of the aborigines. Uninhabitable houses are not allowed to be rebuilt; they are demolished. Roads and streets have been constructed and reconstructed in the town and villages, and are kept clean from time to time. The Sanitary Inspector did fairly good work throughout the year, but there is room for improvement.

*Water Supply.*—The water supply at Waterloo is good. At present it is being laid on in pipes from a stream from a hill in the locality. There are about a dozen standpipes fitted up in different centres in the village, which give an adequate supply of water throughout the year.

There are a few wells, but the owners do not use the water for cooking purposes. Some of them use the water for washing garments and scrubbing houses, etc. Sanitation on the whole has been satisfactory.

Peninsula villages and dispensaries belonging to this district were not visited by me during the year under review owing to the war. I hope to be able to do so when the war is over.

W. O. TAYLOR.

WATERLOO,
*7th January,* 1915.

## DISPENSARIES.

### *Mano-Salija.*

| | |
|---|---|
| Number of new cases treated ... ... ... ... | 1,265 |
| Subsequent attendances ... ... ... ... | 1,238 |
| Total ... ... | 2,503 |

### *Banana Islands.*

| | |
|---|---|
| Number of new cases treated ... ... ... ... | 1,176 |
| Subsequent attendances ... ... ... ... | 1,440 |
| Total ... ... | 2,616 |

### *Hastings.*

| | |
|---|---|
| Number of new cases treated ... ... ... ... | 2,082 |
| Subsequent attendances ... ... ... ... | 1,862 |
| Total ... ... | 3,944 |

### *Port-Lokkoh.*

| | |
|---|---|
| Number of new cases treated ... ... ... ... | 1,760 |
| Subsequent attendances ... ... ... ... | 5,283 |
| Total ... ... | 7,043 |

### *Sumbuyah.*

| | |
|---|---|
| Number of new cases treated ... ... ... ... | 1,566 |
| Subsequent attendances ... ... ... ... | 1,305 |
| Total ... ... | 2,871 |

### *Regent.*

| | |
|---|---|
| Total number of cases treated (old and new) ... | 2,360 |

### *York.*

| | |
|---|---|
| Total number of cases treated... | 1,178 |
| Subsequent attendances | 691 |
| Total | 1,869 |

### *Kent.*

| | |
|---|---|
| Total number of cases treated | 1,234 |
| Subsequent attendances | 1,271 |
| Total | 2,505 |

# IV.—SCIENTIFIC.

1. MALARIA IN THE KOINADUGU DISTRICT, WITH SPECIAL REFERENCE TO KABALLA.
2. TRYPANOSOMIASIS IN THE KOINADUGU DISTRICT.
3. REPORT ON A CASE OF SLEEPING SICKNESS.
4. ENTOMOLOGICAL REPORTS.

## MALARIA IN KOINADUGU DISTRICT, WITH SPECIAL REFERENCE TO KABALLA, THE DISTRICT HEADQUARTERS, 1914.

This report should be regarded as preliminary, the greater part of the work not having been begun before September 1st, and being still in progress.

*Cases of Malaria.*—In the work of the Dispensary 47 cases were diagnosed during the year 1914, 26 being clinical and 21 microscopical, all subtertian, blood films from 60 persons being examined between July 1st and December 31st. Unfortunately no record was kept of microscopic work during the first six months. Little reliance, however, can be placed on actual cases, as children are rarely brought for treatment unless very ill indeed. It is extremely difficult to obtain material for examination owing to the fears and suspicions of the people, especially the mothers, but with the exercise of tact it is possible to take a fairly general spleen census. This was done in the north-eastern, central, and south-western parts of the district, the results being shown in detail in the attached tables.

*Spleen Census.*—In the portion of the district in which the census has been taken, probably about 25 per cent. of the total number of children have been examined. In some cases two inspections were made, one in the dry season and one during the rains. An attempt was made to re-examine the same children, but this had to be given up as impossible except in the case of the few in the Court Messengers' barracks, and it is therefore impossible to say how many of these were seen twice. In the tables they are counted as fresh individuals. If the higher figure only be taken of the two where the two examinations were made, neglecting the other, the total number of children examined was 1,530. Of that number 385 showed enlargement of the spleen, varying from that merely palpable to four or more finger-breadths below the costal margin, and in a number of cases reaching below the umbilicus. This is equivalent to 25 per cent. In one village of six huts, out of 18 children only one had an enlarged spleen, and that was just palpable. A number of children were also examined by Dr. Pearson on patrol, but sufficient details are not given for classification.

The census was taken in two parts, one during the dry season, the other during the rains. The difference is remarkable. In the first of 1,149 children 240 had palpable spleens, *i.e.*, 20 per cent., while in the latter, of 557 children, 220 showed enlargement, *i.e.*, 39·5 per cent., or just double. In close relation to this is the fact, frequently mentioned in other years, that during the dry seasons mosquitoes are so rare that they seldom impress themselves on one's notice.

Boys and girls appear to be affected in about the same proportion. The nearer the age approaches fourteen the lower is the percentage of enlargements, the spleen probably returning to the normal as immunity is established. The greatest care was exercised in examination to get as accurate results as possible, each one being first palpated then percussed. A note was made regarding the proximity of swamps to each town, but this does not seem to exercise as much influence as I expected.

To proceed further with details of the results as shown in the lists :—

I have taken as age groups : Group A, children under the age of two; Group B, 2 to 5 years inclusive; Group C, 6 to 9 years inclusive; Group D, 10 to 14 years; all ages being of course only by guess work. None over 14 years were taken.

In Group A, 71 were examined, 27 were enlarged, giving 38 per cent.
„ „ B 604 „ „ 221 „ „ „ 36·5 „ „
„ „ C 721 „ „ 174 „ „ „ 24 „ „
„ „ D 310 „ „ 35 „ „ „ 11 „ „

If however the amount of enlargement be taken as the basis :—

181 were just palpable, denoted in the lists by the letter P.
139 were one finger-breadth below costal margin I.
79 „ two „ „ „ „ II.
47 „ three „ „ „ „ III.
13 „ four or more finger-breadths below costal margin IV.

A comparison of the towns where the census was taken twice is of interest.

| Town. | Season. | Examined. | P. | I. | II. | III. | IV. | Total enlarged. |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | per cent. |
| Serakoria ... ... | Dry | 51 | 4 | 4 | 2 | 5 | — | 15 giving 29 |
| | Rains | 36 | 5 | 5 | 1 | 1 | — | 12 „ 33 |
| Ninkintumania ... | Dry | 66 | 3 | 3 | 2 | — | — | 8 „ 12 |
| | Rains | 52 | 12 | 3 | 2 | 1 | — | 17 „ 32·7 |
| Kombile ... ... | Dry | 62 | 5 | 1 | 3 | — | — | 9 „ 14·5 |
| | Rains | 23 | 7 | 3 | 2 | 1 | — | 13 „ 56·5 |
| Kamballa ... | Dry | 38 | — | 14 | 5 | 3 | — | 22 „ 57·9 |
| | Rains | 102 | 13 | 9 | 4 | 1 | — | 27 „ 27·4 |
| Barracks ... ... | Dry | 32 | 1 | 5 | 1 | 2 | — | 9 „ 28 |
| | Rains | 27 | 1 | 4 | 4 | 2 | — | 11 „ 40·7 |

It will be noticed that Kaballa differs in having a very much higher rate during the dry season, in fact it looks as if the seasons had been transposed. Possibly the difference in the numbers examined may have something to do with it. Dr. Pearson took the dry season, while I took the other. I have always found Kaballa town fairly healthy as regards malaria, thus differing from the barracks, which lie much nearer the swamps. Another reason may be that fires are not usually kept going in the huts of the barracks as in the town. In the rains mosquitoes are so numerous in the barracks that most of the men make some attempt to screen their beds with curtains and native cloths, while a few have mosquito nets, which, however, are seldom intact.

Tracing what became of the spleens seen in the barracks during the rains when they were examined four months later, about a month after the dry season had set in, I was surprised to find that four whose spleens had not previously been palpable now showed enlargements of one, two, or even three finger-breadths, another had increased from two to three fingers, one remained at a finger-breadth, while only six had become no longer palpable. Some of these had been previously diagnosed as chronic malaria, and the proper treatment prescribed, but the mothers are too careless to keep up the treatment for any length of time. It will be interesting to see the condition later on in the dry season.

*Spleen Index.*—"Stephens and Christophers" in their book recommend that the ages two to ten years be used as the basis for the spleen index. Adding Groups B and C together (çounting two examinations of a town as if it were two towns) out of 1,325 children examined we have 395 showing enlarged spleens, that is almost 30 per cent. Even if the re-examination of these towns be omitted the percentage practically remains the same. Of the part of the district examined, therefore, the spleen index is thirty. I hope to do ultimately the greater part of the district.

*Local Carrier of Malaria.*—To decide this, two points were taken up: which are the commonest house-haunting anopheles in Kaballa, and which of these are the most heavily infected. Collecting and breeding out for my last two tours, with identification by the bureau at the British Museum, had already established that the only anopheles present are *A. costalis* with its near relation *A. pitchfordi*, thus bringing the problem within fairly narrow limits. I decided that the best plan would be to catch a definite number each day over a considerable period of time, from the quarters, European and native, the gaol, barracks, and Kaballa town indiscriminately. This is still in process, although as the dry season advances mosquitoes are becoming more and more scarce and difficult to capture. Of those taken as many as possible are dissected when ready. The greater number of the remainder are later forwarded to the bureau to check identification.

The results up to the end of the year are as follows :—

CAPTURES : (m. = males, f. = females.)

| | September. | October. | November. | December. | Total. |
|---|---|---|---|---|---|
| *A. costalis* ... | 14 m. and 80 f. | 41 f. | 13 f. | 7 f. | 14 m. and 141 f. |
| *A. funestus* ... | 2 m. and 23 f. | 26 f. | 63 f. | 18 f. | 2 m. and 130 f. |
| *A. rhodesiensis* | 57 m. and 50 f. | 47 m. and 20 f. | 2 m. and 3 f. | 2 f. | 106 m. and 75 f. |
| *A. pitchfordi*... | 2 f. | 3 f. | 1 f. | 1 f. | 7 f. |
| *A. umbrosus* ... | 1 f. | — | 2 f. | — | 3 f. |
| *Culex* (various) | 14 f. | 33 f. | 17 f. | 11 f. | 75 f. |

Bred out during the same time from larvæ :—

| | |
|---|---|
| *A. costalis* ... ... ... ... ... | 11m. and 30f. |
| *A. funestus* ... ... ... ... ... | 7m. and 27f. |
| *A. rhodesiensis* ... ... ... ... | 40m. and 76f. |
| *A. umbrosus* ... ... ... ... ... | 2f. |
| *A. pitchfordi* ... ... ... ... ... | 5f. |
| *Culex* (various) ... ... ... ... | 17m. and 83f. |

NOTE.—*Culex* included *S. sugens, S. africana, S. apicoargentea, S. fasciata, Ochlerotatus minutus, Culiciomyia nebulosa, Uranotaenia nigripes.*

These species of *Culex* are merely inserted here as part of the results.

All mosquitoes bred were from the swamp to be described later, with the exception of a few from a juju pot in the town, and, towards the end, from the spring near my own quarters. It may not be out of place here to mention that away from European quarters or rest-houses, practically the only artificial breeding-places found about towns in this district are juju pots or borrow-pits.

It will be seen from the lists that *A. umbrosus* and *pitchfordi*, from their small numbers, are negligible as regards the carrying of malaria. Species of *Culex* are so far not known to be carriers. As regards *A. rhodesiensis* some explanation of the large numbers of males captured is necessary. Fully two-thirds of the females and practically all the males were caught in my own quarters. The large numbers of males pointed to a breeding-place inside the house or quite close. A thorough search was carried out, even the bamboos in the framework of the roof being examined without result. I had come in from patrol at the end of August, and before going on patrol I had as usual made a personal search to see that no water had been left in filters or elsewhere. The explanation appeared to be the flooding of the verandah, which is cemented, by rain each night, the water having to be swept out in the morning. While I was absent on patrol this water would remain and form an excellent breeding-place, and afterwards shelter would be found in the dark loft of the house. Later they began to breed in numbers, along with other *Anopheles*, in the spring already mentioned, which is dry until the middle of the rains. To return, from the point of numbers the question of carrier lies between *A. costalis* and *A. funestus* with possibly some help from *A. rhodesiensis*.

*Dissection of Anopheles.*—Ninety-one *A. costalis* were dissected. In 82 both intestine and salivary glands were examined, and in the remaining 9 the glands only. Of all these, 8 were found to have infected glands and 6 infected intestine, a total of 14, giving a percentage infected of 15. One hundred *A. funestus* were examined, in 84 both glands and intestine, and in 16 glands only. Eleven had infected glands and ten infected intestine, a total of 21, that is 21 per cent. infected.

Of thirty-seven *A. rhodesiensis* examined only one was infected, while of one *A. umbrosus* and three *A. pitchfordi* none were infected. The results of dissection, therefore, bear out those of numbers of others, that *A. costalis* and *A. funestus* are the carriers with some slight assistance from *A. rhodesiensis*.

Out of a total of 239 mosquitoes examined 36 were infected, giving us an infected mosquito rate of 15 per cent. for Kaballa.

This is a fairly high rate, but further investigation is necessary.

*Breeding places.*—An attempt was made to discover the chief breeding-places. In Kaballa valley there are three swamps which I have named, with reference to my own quarters, western, northern, and north-eastern, all linked up in the rains by strips along the stream banks. A systematic search of these was begun for mosquito larvæ which were carefully bred out, as I had found a few *Anopheles* larvæ there in previous years. I have already given the results. Every foot of ground in the western swamp was gone over during the first half of August and September, but by the time this was finished the paddy rice and elephant grass had reached such a height that the work had to be given up until the spring, when it is hoped that the others may be done in the same manner. The western swamp, in the rains, approaches to within 60 to 80 yards of the nearest part of the barracks, and lies about 400 yards from the European quarters. It is fed by springs during the dry season. To my surprise I found that practically only species of *Culex* were breeding in it, except for a strip flooded direct from the stream, over 300 yards from the barracks and 500 from the quarters, where *anophelines* were found in numbers. A few were found in pockets in various parts of the swamp, but not in sufficient numbers to be of importance. As I have mentioned I personally searched every foot of the ground. Until stopped by the growth of the grass search was made on the hillside for even the smallest breeding-places, but none were found except the small spring already mentioned, about 50 yards from my own quarters, and this is dry from February to September.

*Experiments with Larvæ.*—While searching the swamp I found large numbers of small fish with which I carried out a series of experiments to find out how far they were of use in keeping down larvæ. Two species were found which were identified by Col. Alcock (London School of Tropical Medicine), as *Barbus* near *anema*, and *Fundulus gardneri*. They were kept in small glass jars and wide necked bottles, larger dishes not being available. Immediately on capture the *Barbus* was very active in eating the larvæ, swallowing in a short time what seemed to be incredible numbers, and showing marked preference for *anophelines*, possibly on account of their smaller size, the same preference being shown when pupæ were tried. Bread crumbs, ant eggs, white ants, small worms, grubs, etc., were all tested against the larvæ with the same result, unless the fish had been kept in confinement for a considerable time, when the respective consumption of larvæ fell off, probably through both loss of appetite and education. In the same way egg rafts were not touched unless broken up, when individual eggs soon disappeared. *Anophelines*, of course, do not make rafts but lay the eggs singly.

On the other hand the *fundulus* showed little appetite for larvæ until they had been some time in confinement, and even then, little eagerness was shown unless they were starving, when they seemed to prefer, first egg rafts, then larvæ or pupæ of *Culex*. Egg rafts they seemed to be fond of, breaking them up and swallowing the eggs in masses. Other experiments were carried out under natural conditions. One such may be described. A small pool in the swamp was partly cleared of weeds and a number of *Barbus* driven in, the *Fundulus* being picked out. Egress was stopped, and larvæ, grubs, small worms, etc., gently slipped into the pool, the behaviour of the fish being closely observed. A species of river fish, resembling a bream, was also tried, but was a total failure.

On the suggestion of Mr. Guy Marshall, of the Bureau, experiments were tried with two species, a large and a small, of frogs, as well as with tadpoles, but at no time did they ever seem to touch larvæ, leaving them to breed out. There can, however, be no doubt that the species of *Barbus* is of the greatest service as one of the most active enemies of larvæ, especially *anophelines*.

*Summary.*—This report may be summarised thus :—

Malaria is common in Koinadugu District.

Out of over one thousand three hundred children examined covering a quarter of all the children in the area dealt with, the spleen index is thirty.

Of fifteen hundred children of all ages up to fourteen years 25 per cent. show enlarged spleens.

The older the child the less likely is the spleen to be enlarged. Very great enlargement is rare.

The type of malaria met with is subtertian.

During the dry season malaria is reduced to at least half.

The common species of *Anopheles* are *A. costalis* and *A. funestus*.

Both these are heavily infected.

Swamps are not necessarily extensive breeding grounds of *anophelines*, which may be confined to certain portions.

This may be due to the presence of large numbers of fish, a species of *Barbus* being most active.

JOHN Y. WOOD,

*Medical Officer.*

| Town. | Remarks. | Date. | Approximate Number of huts. | Age Group. | No. examined. | | Total. | Spleen not palpably enlarged. | | Total not enlarged. | Enlargements in Finger-breadths. | | | | | | | | | | Total enlarged. | | Total. | Percentage. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | P. | | I. | | II. | | III. | | IV. and over. | | | | | |
| | | | | | M. | F. | | M. | F. | | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | | |
| Kanigi … … | Dry season, no swamp, but river 200 yards away. | 27/11/14 | 22 | A | 2 | — | 2 | 2 | — | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | — | 3 | 3 | — | 2 | 2 | — | — | — | — | — | 1 | — | — | — | — | — | 1 | 1 | |
| | | | | C | 4 | 9 | 13 | 3 | 5 | 8 | 1 | 2 | — | — | — | 2 | — | — | — | — | 1 | 4 | 5 | |
| | | | | D | 3 | 5 | 8 | 3 | 4 | 7 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | 1 | |
| | | | | | 9 | 17 | 26 | 8 | 11 | 19 | 1 | 3 | — | — | — | 3 | — | — | — | — | 1 | 6 | 7 | 27·0 |
| Kamabai … … | Dry season. No swamps. | 29/11/14 | 30 | A | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 10 | 5 | 15 | 7 | 3 | 10 | 1 | — | 1 | 2 | — | — | — | — | 1 | — | 3 | 2 | 5 | |
| | | | | C | 8 | — | 8 | 7 | — | 7 | — | — | — | — | 1 | — | — | — | — | — | 1 | — | 1 | |
| | | | | D | 4 | — | 4 | 4 | — | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 23 | 5 | 28 | 19 | 3 | 22 | 1 | — | 1 | 2 | 1 | — | — | — | 1 | — | 4 | 2 | 6 | 21·4 |
| Bumban … … | Dry season. No swamps. Narrow valley. Swift springs. | 30/11/14 | 50 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 4 | 1 | 5 | 3 | — | 3 | — | — | 1 | 1 | — | — | — | — | — | — | 1 | 1 | 2 | |
| | | | | C | 17 | 28 | 45 | 13 | 24 | 37 | 1 | 2 | 1 | 1 | 1 | — | 1 | — | — | 1 | 4 | 4 | 8 | |
| | | | | D | 11 | 15 | 26 | 10 | 15 | 25 | — | — | — | — | 1 | — | — | — | — | — | 1 | — | 1 | |
| | | | | | 32 | 44 | 76 | 26 | 39 | 65 | 1 | 2 | 2 | 2 | 2 | — | 1 | — | — | 1 | 6 | 5 | 11 | 14·4 |
| Kabinkola … | Dry season. No swamps. | 5/12/14 | 100 | A | 6 | 2 | 8 | 6 | 1 | 7 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | 1 | |
| | | | | B | 29 | 21 | 50 | 21 | 15 | 36 | 2 | 4 | 3 | 1 | 2 | 1 | — | — | 1 | — | 8 | 6 | 14 | |
| | | | | C | 21 | 14 | 35 | 19 | 12 | 31 | 1 | 1 | — | 1 | 1 | — | — | — | — | — | 2 | 2 | 4 | |
| | | | | D | 4 | 6 | 10 | 4 | 6 | 10 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 60 | 43 | 103 | 50 | 34 | 84 | 3 | 6 | 3 | 2 | 3 | 1 | — | — | 1 | — | 10 | 9 | 19 | 18·4 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kamafaroh ... | Dry season. Swamps a few hundred yards away. | 6/12/14 | 60 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 16 | 13 | 29 | 9 | 11 | 20 | 2 | — | 4 | 1 | — | 1 | 1 | — | — | — | 7 | 2 | 9 | |
| | | | | C | 13 | 13 | 26 | 12 | 10 | 22 | 1 | — | — | 1 | — | — | — | 2 | — | — | 1 | 3 | 4 | |
| | | | | D | 8 | 2 | 10 | 6 | 2 | 8 | — | — | — | — | 1 | — | — | — | — | 1 | 1 | 1 | 2 | |
| | | | | | 37 | 28 | 65 | 27 | 23 | 50 | 3 | — | 4 | 2 | 1 | 1 | 1 | 2 | — | 1 | 9 | 6 | 15 | 23·0 |
| Kamasamoh ... | Dry season. Swamps some distance away. | 7/12/14 | 40 | A | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 10 | 15 | 25 | 9 | 9 | 18 | — | 2 | 1 | 3 | — | — | — | 1 | — | — | 1 | 6 | 7 | |
| | | | | C | 15 | 5 | 20 | 14 | 4 | 18 | 1 | 1 | — | — | — | — | — | — | — | — | 1 | 1 | 2 | |
| | | | | D | 1 | 3 | 4 | 1 | 2 | 3 | — | — | — | — | — | — | — | 1 | — | — | — | 1 | 1 | |
| | | | | | 27 | 23 | 50 | 25 | 15 | 40 | 1 | 3 | 1 | 3 | — | — | — | 2 | — | — | 2 | 8 | 10 | 20·0 |
| Kamadihi ... | Dry season. Swamps 700 yards away. | 7/12/14 | 40 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 15 | 9 | 24 | 11 | 9 | 20 | 2 | — | — | — | 2 | — | — | — | — | — | 4 | — | 4 | |
| | | | | C | 12 | 6 | 18 | 10 | 3 | 13 | 1 | 2 | 1 | — | — | — | — | — | — | 1 | 2 | 3 | 5 | |
| | | | | D | 2 | 6 | 8 | 1 | 6 | 7 | — | — | — | — | — | — | — | — | 1 | — | 1 | — | 1 | |
| | | | | | 29 | 21 | 50 | 22 | 18 | 40 | 3 | 2 | 1 | — | 2 | — | — | — | 1 | 1 | 7 | 3 | 10 | 20·0 |
| Masumgbo ... | Dry season. No swamp. River Selli ½ mile away. | 7/12/14 | 43 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | — | 4 | 4 | — | 4 | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | C | 17 | 4 | 21 | 14 | 4 | 18 | 1 | — | 1 | — | 1 | — | — | — | — | — | 3 | — | 3 | |
| | | | | D | 3 | 3 | 6 | 3 | 3 | 6 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 20 | 11 | 31 | 17 | 11 | 28 | 1 | — | 1 | — | 1 | — | — | — | — | — | 3 | — | 3 | 9·6 |
| Modugu ... ... | Dry season. No swamps. | 7/12/14 | 17 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 8 | 12 | 20 | 4 | 12 | 16 | — | — | 2 | — | 2 | — | — | — | — | — | 4 | — | 4 | |
| | | | | C | 6 | 6 | 12 | 6 | 6 | 12 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | D | 4 | 4 | 8 | 4 | 4 | 8 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 18 | 22 | 40 | 14 | 22 | 36 | — | — | 2 | — | 2 | — | — | — | — | — | 4 | — | 4 | 10·0 |
| Kayasi ... ... | Dry season. No swamps. | 7/12/14 | 6 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 5 | 7 | 12 | 4 | 7 | 11 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | |
| | | | | C | 2 | — | 2 | 2 | — | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | D | 3 | 1 | 4 | 3 | 1 | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 10 | 8 | 18 | 9 | 8 | 17 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | 5·5 |

| Town. | Remarks. | Date. | Approximate Number of huts. | Age group. | No. examined. | | Total. | Spleen not palpably enlarged. | | Total not enlarged. | Enlargements in Finger-breadths. | | | | | | | | | | Total enlarged. | | Total. | Percentage. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | P. | | I. | | II. | | III. | | IV. and over. | | | | | |
| | | | | | M. | F. | | M. | F. | | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | | |
| Moforoka... ... | Dry season. Surrounded by swamp, very close on one side. | 7/12/14 | 26 | A | 2 | — | 2 | — | — | — | 1 | — | 1 | — | — | — | — | — | — | — | 2 | — | 2 | |
| | | | | B | 11 | 14 | 25 | 3 | 7 | 10 | 3 | 3 | 3 | 1 | 1 | — | — | 2 | 1 | 1 | 8 | 7 | 15 | |
| | | | | C | 8 | 7 | 15 | 6 | 5 | 11 | 1 | — | — | 2 | 1 | — | — | — | — | — | 2 | 2 | 4 | |
| | | | | D | — | 2 | 2 | — | 1 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | 1 | |
| | | | | | 21 | 23 | 44 | 9 | 13 | 22 | 5 | 3 | 4 | 3 | 2 | — | — | 2 | 1 | 2 | 12 | 10 | 22 | 0·5 |
| Mabonto ... ... | Dry season. Numerous Swamps, quite close. | 8/12/14 | 40 | A | 3 | — | 3 | 3 | — | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 20 | 19 | 39 | 15 | 10 | 25 | 1 | 2 | 1 | 2 | 2 | 3 | — | 2 | 1 | — | 5 | 9 | 14 | |
| | | | | C | 27 | 18 | 45 | 21 | 16 | 37 | 2 | 1 | 4 | 1 | — | — | — | — | — | — | 6 | 2 | 8 | |
| | | | | D | 8 | 5 | 13 | 6 | 5 | 11 | 2 | — | — | — | — | — | — | — | — | — | 2 | — | 2 | |
| | | | | | 58 | 42 | 100 | 45 | 31 | 76 | 5 | 3 | 5 | 3 | 2 | 3 | — | 2 | 1 | — | 13 | 11 | 24 | 24·0 |
| Munbunera ... | Dry season. No swamps River Selli few hundred yards away. | 11/12/14 | 30 | A | 1 | — | 1 | — | — | — | — | — | — | — | 1 | — | — | — | — | — | 1 | — | 1 | |
| | | | | B | 4 | 2 | 6 | 4 | 1 | 5 | — | — | — | 1 | — | — | — | — | — | — | — | 1 | 1 | |
| | | | | C | 17 | 7 | 24 | 16 | 6 | 22 | 1 | — | — | 1 | — | — | — | — | — | — | 1 | 1 | 2 | |
| | | | | D | 7 | 4 | 11 | 6 | 4 | 10 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | |
| | | | | | 29 | 13 | 42 | 26 | 11 | 37 | 2 | — | — | 2 | 1 | — | — | — | — | — | 3 | 2 | 5 | 11·8 |
| Waia ... ... | Dry season. On hill top. No swamp. | 12/12/14 | 20 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 2 | 5 | 7 | — | 4 | 4 | 1 | 1 | 1 | — | — | — | — | — | — | — | 2 | 1 | 3 | |
| | | | | C | 5 | 4 | 9 | 5 | 2 | 7 | — | 1 | — | — | — | — | — | 1 | — | — | — | 2 | 2 | |
| | | | | D | 5 | — | 5 | 5 | — | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 12 | 9 | 21 | 10 | 6 | 16 | 1 | 2 | 1 | — | — | — | — | 1 | — | — | 2 | 3 | 5 | 23·8 |
| Kanya ... ... | Dry season. On hill top. No swamp. | 13/12/14 | 30 | A | 2 | — | 2 | 2 | — | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 5 | 6 | 11 | 4 | 5 | 9 | — | — | — | — | — | 1 | 1 | — | — | — | 1 | 1 | 2 | |
| | | | | C | 8 | — | 8 | 6 | — | 6 | 1 | — | 1 | — | — | — | — | — | — | — | 2 | — | 2 | |
| | | | | D | 5 | — | 5 | 5 | — | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 20 | 6 | 26 | 17 | 5 | 22 | 1 | — | 1 | — | — | 1 | 1 | — | — | — | 3 | 1 | 4 | 15·3 |
| Kondembia ... | Dry season. No swamp. | 14/12/14 | 60 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 13 | 10 | 23 | 11 | 10 | 21 | 1 | — | 1 | — | — | — | — | — | — | — | 2 | — | 2 | |
| | | | | C | 23 | 6 | 29 | 21 | 6 | 27 | — | — | — | — | 1 | — | 1 | — | — | — | 2 | — | 2 | |
| | | | | D | 3 | — | 3 | 2 | — | 2 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | |
| | | | | | 39 | 16 | 55 | 34 | 16 | 50 | 2 | — | 1 | — | 1 | — | 1 | — | — | — | 5 | — | 5 | 9·0 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dankiawallia ... | Dry season. No swamp in town. River 400 yards. | 20/12/14 | 100 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 29 | 10 | 39 | 23 | 4 | 27 | 4 | 3 | — | 2 | 2 | — | — | 1 | — | — | 6 | 6 | 12 | |
| | | | | C | 21 | 7 | 28 | 18 | 5 | 23 | 1 | — | 1 | 2 | — | — | 1 | — | — | — | 3 | 2 | 5 | |
| | | | | D | 1 | 2 | 3 | 1 | 2 | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 51 | 19 | 70 | 42 | 11 | 53 | 5 | 3 | 1 | 4 | 2 | — | 1 | 1 | — | — | 9 | 8 | 17 | 24·2 |
| Ninkintumania .. | Dry season. (Second inspection.) | 21/12/14 | 50 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 5 | 3 | 8 | 4 | 3 | 7 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | |
| | | | | C | 34 | 4 | 38 | 28 | 3 | 31 | 2 | — | 2 | 1 | 2 | — | — | — | — | — | 6 | 1 | 7 | |
| | | | | D | 14 | 6 | 20 | 14 | 6 | 20 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 53 | 13 | 66 | 46 | 12 | 58 | 3 | — | 2 | 1 | 2 | — | — | — | — | — | 7 | 1 | 8 | 12·1 |
| Serakoria ... | Dry season. (Second inspection.) | 22/12/14 | 80 | A | 2 | 2 | 4 | 1 | 1 | 2 | 1 | 1 | — | — | — | — | — | — | — | — | 1 | 1 | 2 | |
| | | | | B | 13 | 10 | 23 | 7 | 6 | 13 | 1 | — | 2 | 1 | — | 1 | 3 | 2 | — | — | 6 | 4 | 10 | |
| | | | | C | 19 | — | 19 | 16 | — | 16 | 1 | — | 1 | — | 1 | — | — | — | — | — | 3 | — | 3 | |
| | | | | D | 5 | — | 5 | 5 | — | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 39 | 12 | 51 | 29 | 7 | 36 | 3 | 1 | 3 | 1 | 1 | 1 | 3 | 2 | — | — | 10 | 5 | 15 | 29·3 |
| Kombile ... | Dry season. (Second inspection.) | 22/12/14 | 60 | A | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 7 | 10 | 17 | 3 | 8 | 11 | 1 | 2 | 1 | — | 2 | — | — | — | — | — | 4 | 2 | 6 | |
| | | | | C | 17 | 9 | 26 | 15 | 9 | 24 | 2 | — | — | — | — | — | — | — | — | — | 2 | — | 2 | |
| | | | | D | 17 | 1 | 18 | 16 | 1 | 17 | — | — | — | — | 1 | — | — | — | — | — | 1 | — | 1 | |
| | | | | | 42 | 20 | 62 | 35 | 18 | 53 | 3 | 2 | 1 | — | 3 | — | — | — | — | — | 7 | 2 | 9 | 14·5 |
| Tengifera ... | Dry season. One swamp, very close. | 24/12/14 | 30 | A | — | 2 | 2 | — | 2 | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 4 | 1 | 5 | — | 1 | 1 | 3 | — | 1 | — | — | — | — | — | — | — | 4 | — | 4 | |
| | | | | C | 10 | 8 | 18 | 10 | 8 | 10 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | D | 3 | 2 | 5 | 3 | 2 | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 17 | 13 | 30 | 13 | 13 | 28 | 3 | — | — | — | — | — | — | — | — | — | 4 | — | 4 | 13·3 |

| Town. | Remarks. | Date. | Approximate Number of huts. | Age Group. | No. examined. | | Total. | Spleen not palpably enlarged. | | Total not enlarged. | Enlargements in Finger-breadths. | | | | | | | | | | Total enlarged. | | Total. | Percentage. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | P. | | I. | | II. | | III. | | IV. and over. | | | | | |
| | | | | | M. | F. | | M. | F. | | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | | |
| Gbenikoro ... | Dry season. Large swamp 300 yards away. | 26/12/14 | 26 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 9 | 6 | 15 | 7 | 5 | 12 | 2 | — | 1 | — | — | — | — | — | — | — | 3 | — | 3 | |
| | | | | C | 3 | 6 | 9 | 2 | 5 | 7 | 1 | — | 1 | — | — | — | — | — | — | — | 2 | — | 2 | |
| | | | | D | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 13 | 12 | 25 | 10 | 10 | 20 | 3 | — | 2 | — | — | — | — | — | — | — | 5 | — | 5 | 20·0 |
| Kaballa ... ... | Dry season. Taken by Dr. Pearson. | 26/1/14 | 80 | A | 1 | 2 | 3 | 1 | 2 | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 20 | 8 | 28 | 6 | 2 | 8 | — | — | 10 | 4 | 2 | 1 | 2 | 1 | — | — | 14 | 6 | 20 | |
| | | | | C | 4 | 2 | 6 | 2 | 2 | 4 | — | — | — | — | 2 | — | — | — | — | — | 2 | — | 2 | |
| | | | | D | — | 1 | 1 | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 25 | 13 | 38 | 9 | 7 | 16 | — | — | 10 | 4 | 4 | 1 | 2 | 1 | — | — | 16 | 6 | 22 | 27·9 |
| Barracks ... ... | Dry season. (Second inspection.) | 18/12/14 | 36 | A | 5 | 2 | 7 | 3 | 1 | 4 | — | — | — | 1 | 1 | — | 1 | — | — | — | 2 | 1 | 3 | |
| | | | | B | 3 | 3 | 6 | 3 | 2 | 5 | — | — | — | 1 | — | — | — | — | — | — | — | 1 | 1 | |
| | | | | C | 4 | 7 | 11 | 1 | 5 | 6 | 1 | — | 2 | 1 | — | — | — | 1 | — | — | 3 | 2 | 5 | |
| | | | | D | 5 | 3 | 8 | 5 | 3 | 8 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 17 | 15 | 32 | 12 | 11 | 23 | 1 | — | 2 | 3 | 1 | — | 1 | 1 | — | — | 5 | 4 | 9 | 28·1 |
| Total for dry season :— 1,149 examined, 240 enlarged = 20·0 per cent. | | | | | | | | | | | | | | | | | | | | | | | | |
| Yeria ... ... | Rainy season. Swamps very close on two sides. Chief would not assist. | 21/7/14 | 50 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 1 | 3 | 4 | — | 1 | 1 | — | — | — | 1 | 1 | — | — | 1 | — | — | 1 | 2 | 3 | |
| | | | | C | 2 | 2 | 4 | 1 | 1 | 2 | — | — | 1 | 1 | — | — | — | — | — | — | 1 | 1 | 2 | |
| | | | | D | 6 | 1 | 7 | 2 | 1 | 3 | 1 | — | 1 | — | 1 | — | 1 | — | — | — | 4 | — | 4 | |
| | | | | | 9 | 6 | 15 | 3 | 3 | 6 | 1 | — | 2 | 2 | 2 | — | 1 | 1 | — | — | 6 | 3 | 9 | 60·0 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Firiwa ... ... | Rainy season. People unwilling. No swamps near. | 23/7/14 | 100 | A | 1 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | — | — | 1 | — | 1 | |
| | | | | B | 1 | 1 | 2 | — | — | — | — | 1 | 1 | — | — | — | — | — | — | — | 1 | 1 | 2 | |
| | | | | C | 3 | 1 | 4 | — | 1 | 1 | 2 | — | — | — | 1 | — | — | — | — | — | 3 | — | 3 | |
| | | | | D | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 5 | 2 | 7 | — | 1 | 1 | 2 | 1 | 1 | — | 1 | — | 1 | — | — | — | 5 | 1 | 6 | 85·7 |
| Kulakunko .. | Rains. Swamps very close. | 26/7/14 | 50 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 2 | 3 | 5 | 1 | — | 1 | — | 2 | 1 | 1 | — | — | — | — | — | — | 1 | 3 | 4 | |
| | | | | C | 9 | 6 | 15 | 4 | 4 | 8 | 2 | 2 | — | — | 2 | — | — | — | 1 | — | 5 | 2 | 7 | |
| | | | | D | 2 | 2 | 4 | 2 | 2 | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 13 | 11 | 24 | 7 | 6 | 13 | 2 | 4 | 1 | 1 | 2 | — | — | — | 1 | — | 6 | 5 | 11 | 45·8 |
| Faghai ... ... | Rains. On hill top. One swamp at a little distance. | 27/7/14 | 20 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 2 | 5 | 7 | 1 | 2 | 3 | 1 | — | — | 2 | — | 1 | — | — | — | — | 1 | 3 | 4 | |
| | | | | C | 6 | 7 | 13 | 3 | 4 | 7 | 1 | 2 | 1 | 1 | 1 | — | — | — | — | — | 3 | 3 | 6 | |
| | | | | D | 2 | — | 2 | 1 | — | 1 | — | — | 1 | — | — | — | — | — | — | — | 1 | — | 1 | |
| | | | | | 10 | 12 | 22 | 5 | 6 | 11 | 2 | 2 | 2 | 3 | 1 | 1 | — | — | — | — | 5 | 6 | 11 | 50·0 |
| Konroya ... ... | Rains. Parents willing, but children terrified. | 29/7/14 | 20 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 1 | 1 | 2 | — | 1 | 1 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | |
| | | | | C | 1 | 1 | 2 | 1 | 1 | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | D | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 2 | 2 | 4 | 1 | 2 | 3 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — |
| Kamadugu Securella | Rains. Swamp very close on one side. | 30/7/14 | 90 | A | 2 | 1 | 3 | 2 | — | 2 | — | — | — | 1 | — | — | — | — | — | — | — | 1 | 1 | |
| | | | | B | 6 | 5 | 11 | 3 | 2 | 5 | 2 | — | — | 1 | 1 | 1 | — | 1 | — | — | 3 | 3 | 6 | |
| | | | | C | 13 | 9 | 22 | 7 | 4 | 11 | 3 | 1 | 2 | 2 | — | 2 | 1 | — | — | — | 6 | 5 | 11 | |
| | | | | D | 4 | 1 | 5 | 4 | 1 | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 25 | 16 | 41 | 16 | 7 | 23 | 5 | 1 | 2 | 4 | 1 | 3 | 1 | 1 | — | — | 9 | 9 | 18 | 43·9 |

| Town. | Remarks. | Date. | Approximate Number of huts. | Age Group. | No. examined. | | Total. | Spleen not palpably enlarged. | | Total not enlarged. | Enlargements in Finger-breadths. | | | | | | | | | | Total enlarged. | | Total. | Percentage. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | P. | | I. | | II. | | III. | | IV. and over. | | | | | |
| | | | | | M. | F. | | M. | F. | | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | | |
| Sonkonia ... ... | Rains. No swamps near town. Children sleep in farms. | 15/8/14 | 40 | A | 2 | — | 2 | 1 | — | 1 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | |
| | | | | B | 6 | 3 | 9 | 2 | 1 | 3 | — | — | 1 | — | 2 | 2 | — | — | 1 | — | 4 | 2 | 6 | |
| | | | | C | — | 3 | 3 | — | 3 | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | D | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 9 | 6 | 15 | 4 | 4 | 8 | 1 | — | 1 | — | 2 | 2 | — | — | 1 | — | 5 | 2 | 7 | 46·6 |
| Falaba ... ... | Rains. Large swamps very near town. | 16/8/14 | 200 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 10 | 4 | 14 | 3 | 3 | 6 | 1 | 1 | 2 | — | 1 | — | 3 | — | — | — | 7 | 1 | 8 | |
| | | | | C | 23 | 19 | 42 | 10 | 9 | 19 | 6 | 6 | 2 | 3 | 1 | 1 | 3 | — | 1 | — | 13 | 10 | 23 | |
| | | | | D | 17 | 4 | 21 | 12 | 4 | 16 | 3 | — | — | — | — | — | 2 | — | — | — | 5 | — | 5 | |
| | | | | | 50 | 27 | 77 | 25 | 16 | 41 | 10 | 7 | 4 | 3 | 2 | 1 | 8 | — | 1 | — | 25 | 11 | 36 | 46 7 |
| Gahnia ... ... | Rains. Wide plain, dry sandy soil, No swamps, surrounded by farms. | 18/8/14 | 200 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 4 | 1 | 5 | 1 | — | 1 | — | — | 1 | — | 2 | — | — | 1 | — | — | 3 | 1 | 4 | |
| | | | | C | 16 | 3 | 19 | 11 | 2 | 13 | 2 | 1 | 2 | — | — | — | 1 | — | — | — | 5 | 1 | 6 | |
| | | | | D | 5 | 2 | 7 | 5 | 1 | 6 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | 1 | |
| | | | | | 25 | 6 | 31 | 17 | 3 | 20 | 2 | 2 | 3 | — | 2 | — | 1 | 1 | — | — | 8 | 3 | 11 | 35·5 |
| Gberia Tambeka... | One small swamp. Rains. | 21/8/14 | 120 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 5 | 4 | 9 | 1 | 1 | 2 | 4 | — | — | 2 | — | 1 | — | — | — | — | 4 | 3 | 7 | |
| | | | | C | 6 | 3 | 9 | 4 | 1 | 5 | 1 | 1 | 1 | — | — | 1 | — | — | — | — | 2 | 2 | 4 | |
| | | | | D | 2 | — | 2 | 2 | — | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 13 | 7 | 20 | 7 | 2 | 9 | 5 | 1 | 1 | 2 | — | 2 | — | — | — | — | 6 | 5 | 11 | 55·0 |
| Kombile ... ... | Rains. River encircles town within 20 yards. | 21/8/14 | 60 | A | 1 | 2 | 3 | — | — | — | 1 | — | — | 2 | — | — | — | — | — | — | 1 | 2 | 3 | |
| | | | | B | 5 | 7 | 12 | 3 | 1 | 4 | 1 | 3 | — | 1 | 1 | 1 | — | 1 | — | — | 2 | 6 | 8 | |
| | | | | C | 3 | 2 | 5 | 1 | 2 | 3 | 2 | — | — | — | — | — | — | — | — | — | 2 | — | 2 | |
| | | | | D | 2 | 1 | 3 | 2 | 1 | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 11 | 12 | 23 | 6 | 4 | 10 | 4 | 3 | — | 3 | 1 | 1 | — | 1 | — | — | 5 | 8 | 13 | 56·5 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boalakarafia ... | Rains. Swamp some distance away. | 23/8/14 | 120 | A | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | B | 5 | 8 | 13 | 4 | 3 | 7 | — | 3 | 1 | 1 | — | 1 | — | — | — | — | 1 | 5 | 6 | |
| | | | | C | 15 | 6 | 21 | 9 | 4 | 13 | 5 | 1 | — | — | — | 1 | 1 | — | — | — | 6 | 2 | 8 | |
| | | | | D | 18 | 9 | 27 | 16 | 6 | 22 | 1 | 3 | — | — | — | — | 1 | — | — | — | 2 | 3 | 5 | |
| | | | | | 38 | 23 | 61 | 29 | 13 | 42 | 6 | 7 | 1 | 1 | — | 2 | 2 | — | — | — | 9 | 10 | 19 | 31·1 |
| Serakoria... ... | Rains. No swamps. | 25/8/14 | 80 | A | 2 | 4 | 6 | 1 | 3 | 4 | — | — | 1 | 1 | — | — | — | — | — | — | 1 | 1 | 2 | |
| | | | | B | 6 | 5 | 11 | 4 | 4 | 8 | — | — | 1 | 1 | — | — | 1 | — | — | — | 2 | 1 | 3 | |
| | | | | C | 13 | 1 | 14 | 6 | 1 | 7 | 5 | — | 1 | — | 1 | — | — | — | — | — | 7 | — | 7 | |
| | | | | D | 3 | 2 | 5 | 3 | 2 | 5 | — | — | — | — | — | — | — | — | — | — | — | - | — | |
| | | | | | 24 | 12 | 36 | 14 | 10 | 24 | 5 | — | 3 | 2 | 1 | — | 1 | — | — | — | 10 | 2 | 12 | 33·3 |
| Minkinbumania ... | Rains. No swamps. Flat dry soil. | 27/8/14 | 50 | A | 3 | 3 | 6 | 2 | 1 | 3 | 1 | 2 | — | — | — | — | — | — | — | — | 1 | 2 | 3 | |
| | | | | B | 12 | 9 | 21 | 9 | 6 | 15 | 1 | 2 | 2 | — | — | 1 | — | — | — | — | 3 | 3 | 6 | |
| | | | | C | 18 | 4 | 22 | 13 | 2 | 15 | 4 | 1 | 1 | — | — | 1 | — | — | — | — | 5 | 2 | 7 | |
| | | | | D | 3 | — | 3 | 2 | — | 2 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | |
| | | | | | 36 | 16 | 52 | 26 | 9 | 35 | 7 | 5 | 3 | — | — | 2 | — | — | — | — | 10 | 7 | 17 | 32·7 |
| Kaballa ... ... | Rains. Slight elevation. Swamp 500 yards away. | 5/11/14 | 80 | A | — | 3 | 3 | — | 2 | 2 | — | — | — | 1 | — | — | — | — | — | — | — | 1 | 1 | |
| | | | | B | 16 | 18 | 34 | 11 | 13 | 24 | 2 | 2 | 2 | 2 | 1 | 1 | — | — | — | — | 5 | 5 | 10 | |
| | | | | C | 22 | 13 | 35 | 16 | 9 | 25 | 2 | 3 | 2 | 1 | 1 | — | 1 | — | — | — | 6 | 4 | 10 | |
| | | | | D | 20 | 10 | 30 | 15 | 9 | 24 | 4 | — | 1 | — | — | 1 | — | — | — | — | 5 | 1 | 6 | |
| | | | | | 58 | 44 | 102 | 42 | 33 | 75 | 8 | 5 | 5 | 4 | 2 | 2 | 1 | — | — | — | 16 | 11 | 27 | 27·4 |
| Barracks ... ... | Rains. Swamps 60 yards away. No fires in these huts. Many men single. | 12/8/14 | — | A | 7 | 3 | 10 | 2 | 2 | 4 | 1 | — | 2 | 1 | — | 1 | 1 | — | — | — | 4 | 2 | 6 | |
| | | | | B | 3 | 3 | 6 | 2 | 2 | 4 | — | — | — | — | 1 | 1 | — | — | — | — | 1 | 1 | 2 | |
| | | | | C | 1 | 5 | 6 | — | 3 | 3 | — | — | 1 | — | — | 1 | — | 1 | — | — | 1 | 2 | 3 | |
| | | | | D | 3 | 2 | 5 | 3 | 2 | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | | | | 14 | 13 | 27 | 7 | 9 | 16 | 1 | — | 3 | 1 | 1 | 3 | 1 | 1 | — | — | 6 | 5 | 11 | 40·8 |

Total for rainy season ;—557 examined, 220 enlarged = 39·5 per cent.

# REPORT ON TRYPANOSOMIASIS FOR THE YEAR 1914 IN KOINADUGU DISTRICT.

A case of sleeping sickness was reported at Kabinkola, but on proceeding there and examining the man I was very doubtful whether it really was trypanosomiasis. If it was it was a very mild one. The man, aged 30, stated he began to sleep three years ago. At that time he "fainted" while in Freetown, and was taken to the hospital there, remaining for several days. He suffered from headache then, but has not suffered since. He has never had fever or pain, and no breathlessness. He still carries on his work of climbing palms for palm wine, and can carry heavy loads to the railway. He also sleeps when sitting quiet, never when anything takes up his attention. Glands are slightly enlarged but scarcely perceptible. Heart and pulse are normal, temperature normal, tongue coated but not flabby, and he insists that he is not sick at all. His wife is pregnant, and she has had a child born since the commencement of her husband's illness. Two films were examined, but no trypanosomes were found, although there is a slight relative mononuclear leucocytosis with eosinophilia.

Another case was reported at Karafaia shortly after I had passed through in August, coming on very suddenly. The patient was a young man of about 17 years, living in a yard near the one where the case reported last year was, who died. He says the sickness began with palpitation of the heart and much fever which is almost constant. No skin marks appeared, but when his heart was bad he could not go about. He had constant headaches, but not so severely lately, while the pain in the region of the stomach was constant, food making no difference. When the sickness began fever and headache were constant day and night for a week, and then he began to sleep quite suddenly and to tremble. He still had an appetite, but suffered from constipation. He sometimes slept with food in his hand. Face and feet swelled two months ago (22nd December, 1914), and the whole of his body filled out gradually as if he were getting fat. At present œdema is present in face, eyelids and feet, pitting deeply on pressure, the whole of the face, lips, etc., being swollen. His eyes are dull and heavy and his tongue thick and coated, making his speech thick and difficult to make out. He is very dull at first, but gradually rouses and then tends to become irritable. There are continual tremors of the limbs with jerking, making it difficult for him to hold anything. The control of the muscles seems very uncertain, while the finger can feel them twitching when taking his pulse. The hand is peculiarly long and pointed like a claw, and his friends themselves pointed this out, saying they had changed. The skin is whitish or rather an ashy grey. The gait is peculiar, showing a want of control similar to his difficulty in taking hold of anything. Liver and spleen are normal and there is no tenderness, nor any in the muscles. In the heart the apex beat is diffuse and muffled; there is a murmur with the aortic, first sound running on to the second sound, which in marked contrast is sharp and snapping. Breathing is rapid but normal, and he coughs occasionally. Glands of the neck, axilla, elbow, etc., are all enlarged, in great numbers like small-shot, while one or two really large ones are in the inguinal region. On examining his blood I found a single trypanosome in one of the slides.

Of the cases previously reported all are dead except the woman reported at Kamayototo last year. I reported the death of the one at Karafaia, and since then the one at Serakoria who had come from French country, returned there and died some time ago in convulsions. The woman at Kamayototo I sent to enquire about as I was unable to go myself. She is very much better and is able to do light work, although she still suffers from dyspepsia. She does not sleep in the daytime now, and all dropsy has gone except a little at the ankles. It was in her case I first found trypanosomes. During the year while taking the spleen census I examined the posterior cervical glands of children up to the age of fourteen. 1,202 were examined and 922 were found to have palpable glands, from the size of smallshot up to large beans, the percentage being 76·7. As I found the percentage quite as high in Kaballa where there are no *Glossina palpalis*, and in many parts of the country the people say no sleeping sickness has appeared for a lifetime, I am not at all sure I agree that large numbers show widespread trypanosomiasis infection, besides never finding any trypanosomes in the numerous slides I examine for malaria.

JOHN Y. WOOD,
*Medical Officer.*

## REPORT ON A CASE OF SLEEPING SICKNESS.

Nationality—Mendi.
Age—22 years.
Occupation—Farmer.
Admitted—3rd July, 1914.
Died—22nd July, 1914.

On admission patient was extremely emaciated with very protuberant abdomen; muscular tremor marked; knee jerks increased; no ankle clonus; Babinski's sign present; cerebration and speech very slow; enlarged cervical glands.

Blood examination* negative.

Gland puncture. Three trypanosomes seen after prolonged search. The glands enlarged were chiefly those of the posterior triangle with a few along the anterior border of the sterno mastoid. The temperature was, and remained, subnormal throughout.

The patient lay in bed apparently unconscious, but could be roused. Later there was marked retraction of the head with muscular rigidity. Kernig's sign was present, but was probably only a part of the general rigidity. The superficial reflexes remained unaltered. Lumbar puncture was not done; I have no centrifuge. The patient came from a small town named Gondoma, a few miles away from here. He had previously lived in Northern Sherbro, but I was unable to obtain definite information as to the exact locality. The man was not a hunting man, but a farmer. I propose visiting Gondoma shortly, but I do not expect to find anything there.

E. W. WOOD-MASON,
*Medical Officer.*

MOYAMBA,
31*st July*, 1914.

## ENTOMOLOGICAL REPORTS.

An investigation was made during the rains as to the type of mosquito and their breeding places that could be found at Hill Station.

(*a*) Rock pools.
*Anopheles costalis*, Lw.
*Stegomyia sugens*, Wied.
*Ochlerotatus apicoannulatus*, Ed.
*Ochlerotatus minutus*, Theo.

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* When the finger was pricked to make blood slides, the blood was found to be very thin and watery. It did not collect into the usual drop, but ran all over the finger.

(*b*) Hollows in trees.
  *Culex decens*, Theo.
  *Ochlerotatus simulans*, Cart.
  *Ochlerotatus apicoannulatus*, Ed.
  *Stegomyia fasciata*, F.
  *Stegomyia*, sp. nov.
(*c*) Iron pipes and tins.
  *Stegomyia fasciata*, F.
  *Culex decens*, Theo.
(*d*) Axils of plants, etc.
  None found.

I have to thank Mr. Bacot for aiding me in the diagnosis of the mosquitoes enumerated above.

G. G. BUTLER,
*Medical Officer.*

### LIST OF BLOOD-SUCKING DIPTERA COLLECTED BY DR. C. H. ALLAN AT BONTHE.

Culicidæ.
  *Anopheles costalis*, Lw.
  *Culex consimilis*, Newst.
  *Ochlerotatus nigricephalus*, Theo.
Tabanidæ.
  *Tabanus socialis*, Walk.
  *T. pluto*, Walk.
  *T. tæniola*, P. de B.
  *T. fasciatus*, F.
Muscidæ.
  *Glossina Palpalis*, R.D.

### LIST OF DIPTERA COLLECTED BY DR. P. A. CLEARKIN AT BATKARU.

Culicidæ.
  *Anopheles costalis*, Lw.
  *Culiciomyia nebulosa*, Theo.
  *Stegomyia apicoargentea*, Theo.
Tabanidæ.
  *Tabanus par*, Walk.
  *T. besti*, Surc.
Syrphidæ.
  *Asarkina ericetorum*, F.
Muscidæ.
  *Glossina palpalis*, R.D.

### LIST OF INSECTS COLLECTED BY DR. J. S. PEARSON IN THE KOINADUGU DISTRICT.

*Diptera.*

Culicidæ.
  *Stegomyia fasciata*, F.
  *Mansonia uniformis*, Theo.
Tabanidæ.
  *Tabanus marmorosus*, Surc.
  *T. pluto*, Walk.
  *T. kingsleyi*, Ric.
  *T. congoiensis*, Ric.
  *T. laverani*, Surc.
  *T. ruficrus*, P. de B.
  *T. subangustus*, Ric.
  *T. sticticolis*, Surc.
  *T.* sp. incert.—? Nov.

Tabanidæ—(*continued*).
*T.* sp. incert. (near *T. secedens*, Walk.)
*Hæmatopota* ? sp. nov.—unnamed in British Museum.
*H. bullatifrons*, Aust.
*H. similis*, Ric.
*H. torquens*, Aust.
Muscidæ.
*Glossina palpalis*, R.D.
*G. fusca*, Walk.
*G. longipalpis*, Wied.

### *Rhynchota.*

Pentatomidæ.
*Tantia notata*, Dall.
Pyrrhocoridæ.
*Scantino forsteri*, F.
*Dysterous superstitiosus*, F.
Netridæ.
*Laccotrephes* sp. near *steindachneri*, Ferr.

### *Orthoptera.*

Acridiidæ.
*Zonocerus variegatus*, L.

## LIST OF BLOOD-SUCKING DIPTERA COLLECTED BY DR J. Y. WOOD IN THE KOINADUGU DISTRICT.

Culicidæ.
*Anopheles rhodesiensis*, Theo.
*A. umbrosus*, Theo.
*A. funestus*, Giles.
*A. costalis*, Lw.
*Stegomyia sugens*, Wied.
*S. africana*, Theo.
*S. apicoargentea*, Theo.
*S. fasciata*, F.
*Ochlerotatus minutus*, Theo.
*Culiciomyia nebulesa*, Theo.
*Uranotænia nigripes*, Theo.
Tabanidæ.
*Hippocentrum murphyi*, Aust.
*H. trimaculatum*, Newst.
*Hæmatopota lacescens*, Aust.
*H.* sp. near *gracilis*, Aust.
Muscidæ.
*Glossina palpalis*, R.D.
*G. longipalpis*, Wied.
*G. fusca*, Walk.
*Stomoxys calcitrans*, L.
*S. nigra*, Macq.

All the above were identified by the Imperial Bureau of Entomology.

## LIST OF TICKS COLLECTED BY DR. J. Y. WOOD IN THE KOINADUGU DISTRICT.

*Rhipicephalus sanguineus.*
*R. lunulatus.*
*R. falcatus.*
*R. sanguineus var.* (? *sulcatus*).
*Hæmaphysalis leachi.*
*Boophilus australis.*
*Aponomma læve.*
*Amblyomma splendidum.*
*A. variegatum.*
*A. marmoreum.*

These were identified by Professors Nuttall and Warburton.

| Diseases. | Remaining in Hospital at end of December, 1913. | | | | | | | | | | | | | Yearly Total. Admissions. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo | Moyamba. | Kissy. | Makene. | Kennema. | Total. |
| Infective Diseases— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beriberi ... ... ... ... ... | — | — | — | — | — | — | — | — | — | 1 | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Cerebro-Spinal Fever... .. ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Chicken-pox ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7 | — | — | — | — | — | — | — | — | — | — | 7 |
| Cholera ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Dengue ... ... ... ... .. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Diphtheria ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Dysentery ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 13 | 34 | 5 | — | — | — | 13 | 3 | — | 1 | — | — | 69 |
| Endocarditis (Infective) ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Enteric ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | — | — | — | — | — | — | — | — | — | — | 4 |
| Erysipelas ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Gonorrhœa ... ... ... ... ... | — | — | — | — | — | — | 1 | — | — | — | — | — | 1 | 8 | — | 3 | — | — | 1 | 24 | — | 3 | 1 | — | — | 40 |
| Influenza ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Kala-Azar ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Leprosy (*a*) Nodular ... ... ... ... | — | — | — | — | — | — | — | — | — | 2 | — | — | 2 | — | — | — | — | — | — | — | — | — | 2 | — | — | 2 |
| (*b*) Anæsthetic ... ... | - | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 |
| Malaria (*a*) Tertian ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | 11 | 2 | — | — | — | 14 |
| (*b*) Quartan ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — | 2 | — | — | — | — | — | 4 |
| (*c*) Æstivo—Autumnal ... ... | 3 | — | — | — | — | — | — | — | — | — | — | — | 3 | 84 | 22 | 1 | 3 | — | — | 54 | 1 | 3 | — | — | — | 168 |
| (*d*) Chronic Malaria... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 6 | — | — | — | — | — | — | — | — | — | — | — | 6 |
| (*e*) Blackwater Fever ... ... | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Measles ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | 1 |
| Malta Fever ... ... ... ... ... | — | — | - | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Plague ... ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Pneumonia ... ... ... ... ... | 2 | — | — | — | — | — | — | — | — | — | — | — | 2 | 34 | 3 | — | 1 | — | 1 | — | 4 | — | — | — | — | 43 |
| Rabies ... ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Relapsing Fever ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Rheumatic Fever ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 2 |
| Septicæmia ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 10 | - | — | — | — | — | — | — | — | — | — | — | 10 |
| Small-pox ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Syphilis (*a*) Primary ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| (*b*) Secondary ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 11 | — | 1 | — | — | 2 | 1 | — | — | — | — | — | 15 |
| (*c*) Tertiary ... ... ... | — | — | 1 | — | — | — | — | — | — | 23 | — | — | 24 | 12 | — | — | — | — | 3 | 2 | — | — | 16 | 1 | — | 34 |
| Tetanus ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 14 | — | 1 | — | — | — | — | — | — | — | — | — | 15 |
| Trypanosomiasis (Sleeping Sickness) ... | 4 | — | — | — | — | — | — | — | — | — | — | — | 4 | 2 | — | — | — | — | — | — | — | 1 | — | — | — | 3 |
| Tuberculosis ... ... ... ... ... | 3 | — | — | — | — | — | — | — | — | 1 | — | — | 4 | 22 | — | 1 | — | — | — | — | 1 | — | 3 | — | — | 27 |
| Whooping Cough ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Yaws ... ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Yellow Fever ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Other Diseases... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | — | — | — | 4 |
| Intoxications— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alcoholism ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 2 |
| Morphinism ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Others ... ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| General Diseases— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anæmia ... ... ... ... ... | — | — | — | — | — | — | — | — | — | 5 | — | — | 5 | 2 | — | — | — | — | — | 3 | — | — | — | — | — | 5 |
| Anæmia (Pernicious)... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Diabetes ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 2 |
| Exophthalmic Goitre... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Gout ... ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Leucocythæmia ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hodgkin's Disease ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Myxœdema ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Pupura ... ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Rickets ... ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Scurvy ... ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Rheumatism ... ... ... ... ... | 3 | — | — | — | — | — | — | — | — | 12 | — | — | 15 | 36 | 4 | 1 | — | — | — | — | — | 2 | 7 | 3 | — | 53 |
| Debility ... ... ... ... ... | — | — | — | — | — | — | — | — | — | 6 | — | — | 6 | 32 | 1 | — | — | — | — | 3 | 1 | — | 24 | — | — | 61 |
| Other Diseases... ... ... ... ... | — | — | — | — | — | — | — | — | — | 3 | — | — | 3 | 6 | — | — | — | — | — | — | — | 1 | 15 | — | — | 22 |
| LOCAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diseases of the Nervous System— *Sub-section* 1. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Neuritis ... ... ... ... ... | — | — | — | — | — | — | 1 | — | — | — | — | — | 1 | 2 | 1 | — | — | — | — | — | — | — | — | — | — | 3 |
| Meningitis ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | 1 | — | — | — | — | — | — | 3 |
| Myelitis ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hydrocephalus ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Encephalitis ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | 2 |
| Abscess of Brain ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Congestion of Brain ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Other Diseases ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | 1 | — | — | — | — | 3 | — | — | — | — | — | 8 |

| Yearly Total. Deaths. | | | | | | | | | | | | | Total Cases Treated. | | | | | | | | | | | | | Remaining in Hospital at end of December, 1914. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo | Moyamba. | Kissy. | Makene. | Konnema. | Total. |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7 | — | — | — | — | — | — | — | — | — | — | 7 | — | — | — | — | — | — | — | — | — | — | — | — | — |
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| DISEASES. | Remaining in Hospital at end of December, 1913. | | | | | | | | | | | | | Yearly Total. Admissions. | | | | | | | | | | | | |
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| DISEASES OF THE NERVOUS SYSTEM—*continued.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Glossitis ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sore Throat ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 2 |
| Inflammation of Tonsils ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | 1 | — | 1 | — | — | — | 3 |
| Gastritis ... | — | — | — | — | — | — | — | — | 1 | — | — | — | 1 | 2 | — | 4 | — | — | — | 1 | — | — | 1 | — | — | 8 |
| Ulceration of Stomach ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hæmatemesis ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Dilatation of Stomach ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 2 |
| Stricture of Stomach ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
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| Enteritis ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | 1 | — | — | — | 6 | 1 | — | — | — | — | 12 |
| Appendicitis ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | 1 | 1 | 1 | — | 4 |
| Colitis ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 |
| Ulceration of Intestines ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | 1 |

| Yearly Total. | | | | | | | | | | | | | Total Cases Treated. | | | | | | | | | | | | | Remaining in Hospital at end of December, 1914. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Deaths. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaball . | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo | Moyamba. | Kissy. | Makene. | Kennema. | Total. |
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| DISEASES. | Remaining in Hospital at end of December, 1913. | | | | | | | | | | | | | Yearly Total. Admissions. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Movamba. | Kissy. | Makene. | Kennema. | Total. | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. |
| DISEASES OF THE DIGESTIVE SYSTEM—*continued.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sprue ... ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
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| Diarrhœa ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 27 | 19 | — | 2 | — | — | 27 | — | 4 | 4 | — | — | 83 |
| Constipation ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 16 | 1 | 1 | 1 | — | — | 1 | — | 2 | — | — | — | 22 |
| Colic ... ... ... ... ... ... | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 | 27 | — | — | — | — | — | 2 | — | — | — | 2 | — | 31 |
| Hæmorrhoids ... ... ... ... ... | — | — | — | — | — | — | — | — | — | 1 | — | — | 1 | 3 | — | — | — | — | — | — | — | — | — | — | — | 3 |
| Pancreatitis ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hepatitis (Acute) ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 6 | — | 1 | — | — | — | — | — | — | — | — | — | 7 |
| Abscess of Liver ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | 1 | — | — | — | 3 |
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| DISEASES OF THE LYMPHATIC SYSTEM— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Splenitis ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Inflammation of Lymphatic Gland ... ... | 5 | — | — | — | — | — | — | — | — | — | — | — | 5 | 16 | — | — | — | — | 1 | 10 | 1 | 1 | — | — | — | 29 |
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| DISEASES OF THE URINARY SYSTEM— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acute Nephritis ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 10 | — | — | — | — | — | — | — | 3 | 1 | — | — | 14 |
| Bright's Disease ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 5 | — | 3 | — | — | — | — | — | — | — | — | — | 8 |
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| Hæmaturia ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | — | — | — | — | — | 1 | — | — | — | — | — | 4 |
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| Other Diseases... ... ... ... ... | — | 1 | — | — | — | — | — | — | — | 1 | — | — | 2 | 8 | 3 | — | — | — | — | — | 1 | — | — | — | — | 12 |
| DISEASES OF THE GENERATIVE SYSTEM— *Male Organs.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urethritis ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Gleet ... ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Stricture ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 19 | 1 | 2 | 2 | — | — | 1 | 3 | — | — | — | — | 28 |
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| Soft Chancre ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 5 | — | — | 2 | — | — | 3 | 1 | 1 | — | 1 | — | 13 |
| Condyloma ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Inflammation of Scrotum ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hydrocele ... ... ... ... ... | — | — | — | — | — | 1 | — | — | — | — | — | — | 1 | 8 | 1 | — | — | — | 7 | — | 2 | — | — | — | — | 18 |
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| Abscess of Testicle ... ... ... .. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
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| Other Diseases... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 17 | — | — | — | — | 2 | 5 | 1 | — | — | — | — | 25 |
| *Female Organs.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Endometritis ... ... ... ... ... | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 | 5 | — | — | — | — | — | — | — | — | — | — | — | 5 |
| Displacement of Uterus ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 2 |
| Vaginitis ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 2 |
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| Delayed Labour ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 82 | — | — | — | — | — | — | — | — | — | — | — | 82 |
| Post-partum Hæmorrhage ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
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| Yearly Total.<br>Deaths. | | | | | | | | | | | | | Total Cases Treated | | | | | | | | | | | | | Remaining in Hospital at end of December, 1914. | | | | | | | | | | | | |
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| Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. |
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| Diseases. | Remaining in Hospital at end of December, 1913. | | | | | | | | | | | | | Yearly Total. Admissions. | | | | | | | | | | | | |
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| | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema | Total. | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. |
| Diseases of Organs of Locomotion— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteitis... | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
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| Spondylitis | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Bursitis... | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | 1 | — | 1 | — | — | — | — | — | — | 3 |
| Other Diseases | 1 | 1 | — | — | — | — | 1 | — | — | — | — | — | 3 | 17 | 4 | 3 | 2 | — | — | 15 | 1 | — | — | — | — | 42 |
| Diseases of Connective Tissue— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cellulitis | — | — | — | — | — | — | — | — | — | — | — | — | — | 12 | 1 | 5 | 2 | — | — | 1 | 1 | — | 2 | — | — | 24 |
| Abscess... | — | — | 1 | — | — | — | — | — | — | — | — | — | 1 | 47 | 1 | 4 | — | — | — | 13 | 1 | 1 | — | 2 | — | 69 |
| Elephantiasis... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | 1 |
| LOCAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diseases of the Skin— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urticaria | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 2 |
| Eczema | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Boil | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | 2 |
| Carbuncle | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | 1 |
| Herpes... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | 1 |
| Psoriasis | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Oriental Sore... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Tinea | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Scabies... | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | 1 | — | 1 | — | — | 2 |
| Acne | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Prickly Heat... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Ulcer | 9 | — | — | — | — | — | 1 | — | — | 24 | — | — | 34 | 111 | — | 25 | 2 | — | — | 4 | 13 | 3 | 23 | — | — | 181 |
| Other Diseases | 1 | — | — | — | — | — | 1 | — | — | — | — | — | 2 | 12 | 1 | — | — | — | — | 5 | — | — | 2 | 1 | — | 21 |
| Injuries— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General... | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | — | — | — | — | — | — | — | — | — | — | 4 |
| Local | 4 | — | — | — | — | — | — | — | 2 | — | 3 | — | 9 | 122 | 5 | 14 | 13 | — | 2 | 41 | 6 | 20 | 2 | 12 | — | 237 |
| Surgical Operations | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | 1 |
| Tumours... | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 | 38 | 1 | 2 | — | — | 1 | — | 1 | 5 | — | — | — | 48 |
| Malformations... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | — | — | — | — | — | — | — | — | — | — | 3 |
| Poisons | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | — | — | — | — | — | — | — | 2 | — | — | — | 5 |
| Parasites— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Animal.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protozoa | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Trematoda (Flukes)... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| *Cestoda.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tænia solium... | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | 1 | — | — | — | — | — | — | — | — | — | — | 3 |
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| *Nematoda.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ascaris... | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | 1 | — | — | — | — | 12 | — | — | — | — | — | 16 |
| Tricocephalus dispar... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Trichina | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Dracunculus | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Filariasis | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 2 |
| Strongylus | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Ankylostomiasis | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | 29 | 2 | 11 | — | 3 | 126 | — | — | — | — | — | 175 |
| Oxyuris | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Other Diseases | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 |
| *Insecta.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myiasis | — | — | — | — | — | — | — | — | — | 1 | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Unclassified | — | — | — | — | — | — | — | — | — | 1 | — | — | 1 | 3 | — | 1 | — | — | — | 4 | 2 | — | — | — | — | 10 |
| TOTAL | 56 | 2 | 2 | — | — | 1 | 5 | — | 2 | 99 | 3 | — | 171 | 1387 | 196 | 115 | 54 | — | 34 | 434 | 77 | 66 | 137 | 25 | — | 2526 |

| Yearly Total. Deaths. |  |  |  |  |  |  |  |  |  |  |  |  | Total Cases Treated. |  |  |  |  |  |  |  |  |  |  |  |  | Remaining in Hospital at end of December, 1914. |  |  |  |  |  |  |  |  |  |  |  |  |
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| Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. | Freetown Hospital. | Freetown Gaol. | Bonthe. | Batkanu. | Makump. | Kaballa. | Daru. | Bo. | Moyamba. | Kissy. | Makene. | Kennema. | Total. |
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# RETURN OF OUT-PATIENTS—SHOWING DETAILS OF CASES TREATED IN EACH MEDICAL DISTRICT IN THE YEAR 1914.

| Diseases. | With Medical Officers. | | | | | | | | | | | | | | | | With Dispensers only. | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Freetown Hospital. | Cline Town. | Freetown Gaol. | Kissy. | Moyamba. | Bo. | Daru. | Kaballa. | Batkanu. | Makene. | Bonthe. | Bandajuma. | Pujehun. | Kennema. | Waterloo. | Wellington. (Weekly visit.) | Hastings. | Regent. | Goderich. | Kent. | York. | Banana Islands. | Sumbuyah. | Port Lokkoh. | Mano-Salija. | |
| INFECTIVE DISEASES— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beriberi .. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Cerebro-Spinal Fever ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Chicken-pox | — | — | — | — | — | — | 1 | — | 4 | — | — | 3 | — | — | 8 | — | — | — | — | — | — | — | — | — | 1 | 17 |
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| Endocarditis (Infective) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
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| Gonorrhœa | 109 | 51 | 25 | 6 | 51 | 48 | 95 | 17 | 25 | 35 | 31 | 67 | 109 | 102 | 20 | — | 13 | 3 | — | 15 | 6 | 29 | 95 | 41 | 116 | 1109 |
| Influenza | 4 | — | 5 | — | — | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 14 |
| Kala-Azar | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Leprosy (a) Nodular ... | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | 8 | — | 11 |
| (b) Anæsthetic | — | 1 | — | — | — | — | 1 | 1 | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | 8 |
| Malaria (a) Tertian ... | — | 1 | — | 85 | 12 | 117 | — | — | 10 | — | 25 | 87 | 68 | 157 | — | 13 | — | 1 | — | 38 | 58 | 81 | 12 | 45 | 37 | 847 |
| (b) Quartan ... | — | 41 | — | 6 | — | — | — | — | — | — | — | — | — | — | — | — | 79 | — | — | — | — | — | — | — | — | 126 |
| (c) Æstivo-Autumnal | 647 | 167 | 15 | 9 | 42 | 9 | 105 | 47 | 14 | 22 | 7 | — | — | 6 | 39 | 1 | — | — | — | 23 | — | — | — | — | — | 1153 |
| (d) Chronic Malaria... | 4 | 38 | — | — | 18 | — | — | — | — | — | — | — | — | — | 74 | — | — | 2 | — | — | — | — | — | 3 | — | 139 |
| (e) Blackwater | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 |
| Measles ... | — | — | — | — | — | 1 | — | — | — | — | 3 | 3 | 1 | — | — | — | — | — | — | 4 | 1 | — | 17 | — | — | 30 |
| Malta Fever | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Plague ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Pneumonia | 34 | 1 | — | — | 4 | 6 | — | 3 | — | — | 6 | — | — | 1 | 1 | — | — | — | — | 1 | 3 | 1 | 1 | 4 | 2 | 68 |
| Syphilis Tertiary | — | 20 | — | 13 | 15 | 15 | 13 | 8 | 37 | 33 | 22 | — | — | — | — | 1 | — | 3 | — | — | — | — | 9 | — | 6 | 195 |
| Relapsing Fever | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | 2 |
| Rheumatic Fever | — | 7 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | 9 |
| Septicæmia | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Small-pox | — | — | — | — | — | — | — | — | 2 | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 4 |
| Syphilis (a) Primary ... | 15 | 7 | 1 | 1 | 1 | — | — | — | 2 | 1 | 1 | — | 9 | — | 3 | 1 | — | — | — | — | 1 | — | — | 5 | — | 48 |
| (b) Secondary | 32 | 14 | — | — | — | 3 | 3 | 1 | 2 | 3 | 2 | — | 3 | — | 37 | — | 12 | — | — | 17 | 1 | — | — | — | 1 | 131 |
| (c) Inherited ... | — | 8 | — | — | — | — | — | — | — | — | 1 | — | — | 14 | — | — | — | — | — | — | 2 | 20 | 2 | — | — | 47 |
| Tetanus... | 10 | 1 | — | — | — | — | — | — | — | — | 2 | — | — | — | 1 | — | — | — | — | — | — | — | — | 1 | — | 15 |
| Trypanosomiasis (Sleeping Sickness) | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 |
| Tuberculosis | 29 | 6 | — | 4 | 9 | 3 | 3 | 1 | 5 | — | 9 | — | 2 | — | 2 | 2 | — | 2 | — | 7 | 1 | — | — | — | — | 85 |
| Whooping Cough | 18 | 17 | — | 2 | 5 | — | 2 | 3 | — | 1 | 6 | — | — | 4 | 11 | 3 | 3 | — | — | 1 | — | — | 4 | — | — | 80 |
| Yaws ... | 2 | — | — | — | 1 | 2 | — | 3 | 1 | 4 | 7 | 2 | 8 | 8 | 6 | — | 2 | — | — | 21 | 22 | 16 | — | 3 | 2 | 110 |
| Yellow Fever ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Other Diseases ... | — | — | 92 | — | — | 5 | — | — | — | 177 | — | — | — | — | 1 | — | — | 40 | — | — | — | — | — | — | — | 315 |
| INTOXICATIONS— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alcholism | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 2 |
| Morphinism | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Others ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GENERAL DISEASES— | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anæmia... | 65 | 44 | — | 13 | 9 | 10 | 45 | 1 | 1 | — | 17 | 1 | 3 | 12 | 28 | 2 | 6 | 10 | — | 8 | 3 | 24 | 13 | 23 | 3 | 341 |
| Anæmia (Pernicious) ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Diabetes | 6 | 2 | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10 |
| Exophthalmic Goitre ... | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 3 |
| Gout ... | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 |
| Leucocythæmia | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hodgkin's Disease | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Myxœdema | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Purpura... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Rickets ... | 3 | 4 | — | — | — | 1 | 2 | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — | 2 | — | 14 |
| Scurvy ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Rheumatism | 747 | 242 | — | 74 | 222 | 213 | 71 | 46 | 81 | — | 5 | 15 | 130 | 256 | 249 | 36 | 226 | 81 | — | — | 150 | 157 | 161 | 194 | 118 | 3474 |
| Debility | 270 | 25 | — | 85 | 23 | 35 | 11 | 13 | 8 | — | — | — | — | 12 | 119 | 5 | 96 | 11 | — | 30 | 32 | 11 | 8 | 29 | 15 | 838 |
| Others ... | — | 7 | — | 2 | 1 | — | 6 | — | 1 | — | 2 | 6 | 31 | — | — | 1 | — | — | — | 6 | — | — | — | — | — | 63 |
| LOCAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DISEASES OF THE NERVOUS SYSTEM— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Sub-section* 1. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Neuritis... | 4 | 18 | — | 1 | 1 | — | 2 | — | — | — | — | — | 1 | — | 2 | — | — | — | — | 5 | — | — | — | — | — | 34 |
| Meningitis | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Myelitis... | 1 | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 |
| Hydrocephalus... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Encephalitis | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Abscess of Brain | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Congestion of Brain | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Other Diseases | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 |
| *Sub-section* 2. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apoplexy | 3 | 8 | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12 |
| Paralysis | 16 | 5 | — | 1 | — | — | — | — | 1 | — | — | — | 1 | — | 3 | — | 2 | 3 | — | 1 | — | — | — | 1 | 1 | 35 |
| Chorea ... | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Epilepsy | — | 1 | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | 1 | — | — | 6 |
| Neuralgia | 94 | 31 | 3 | 17 | 1 | 19 | 1 | 3 | — | 4 | 22 | 3 | 35 | 24 | 15 | 8 | 8 | 7 | — | 22 | 72 | 23 | 11 | 55 | 7 | 485 |
| Hysteria | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | 4 |
| Other Diseases... | 8 | 12 | — | 4 | 7 | 33 | 2 | 16 | 6 | — | — | 20 | — | 2 | 23 | 1 | 21 | 9 | — | 6 | 13 | — | 8 | — | 25 | 216 |
| *Sub-section* 3. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MENTAL DISEASES— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Idiocy ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mania ... | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Melancholia | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Dementia | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Delusional Insanity | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| DISEASES OF THE EYE— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conjunctivitis ... | 129 | 52 | 26 | 14 | 31 | 16 | 18 | 8 | 12 | 18 | 16 | 7 | 36 | 27 | 14 | — | 21 | 3 | — | 13 | 6 | 13 | 27 | 12 | 8 | 527 |
| Keratitis | 7 | 6 | — | — | — | — | — | 2 | — | — | 1 | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 18 |
| Ulceration of Cornea ... | 9 | 7 | — | — | — | — | 1 | 1 | — | — | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 21 |

## RETURN OF OUT-PATIENTS—SHOWING DETAILS OF CASES TREATED IN EACH MEDICAL DISTRICT IN THE YEAR 1914—*continued.*

| Diseases. | With Medical Officers. | | | | | | | | | | | | | | | | With Dispensers only. | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Freetown Hospital. | Cline Town. | Freetown Gaol. | Kissy. | Moyamba. | Bo. | Daru. | Kaballa. | Batkanu. | Makene. | Bonthe. | Bandajuma. | Pujehun. | Kennema. | Waterloo. | Wellington. (Weekly visit.) | Hastings. | Regent. | Goderich. | Kent. | York. | Banana Islands. | Sumbuyah. | Port Lokkoh. | Mano-Salija. | |
| DISEASES OF THE EYE—*continued.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iritis ... ... ... ... ... ... | 6 | — | — | — | — | — | — | 2 | — | — | 2 | — | — | 3 | — | — | — | — | — | 3 | — | — | — | — | — | 16 |
| Optic Neuritis ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Cataract... ... ... ... ... ... | 9 | 2 | — | — | 1 | 1 | — | 1 | — | — | 3 | — | — | 2 | 1 | — | — | — | — | 1 | — | — | 5 | 2 | — | 28 |
| Other Diseases... ... ... ... ... | 1 | 11 | 1 | 1 | 3 | 7 | 1 | 2 | 4 | 1 | 6 | 3 | — | — | 6 | — | — | 3 | — | 3 | 1 | — | 3 | — | — | 57 |
| DISEASES OF THE EAR— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation ... ... ... ... ... | 67 | 15 | 7 | — | — | 15 | 9 | — | 5 | — | — | 7 | 11 | 14 | 14 | — | 15 | 7 | — | 2 | 22 | 11 | 4 | — | 7 | 225 |
| Other Diseases... ... ... ... ... | 17 | 17 | 2 | 15 | 27 | 7 | — | 10 | 12 | 7 | 26 | — | 6 | 3 | 6 | — | 2 | 7 | — | 5 | — | — | 9 | 6 | 5 | 189 |
| DISEASES OF THE NOSE ... ... ... ... | 148 | 184 | 15 | 6 | 9 | 17 | 10 | 6 | — | 35 | 5 | 8 | — | 9 | 11 | 3 | 3 | 18 | — | 14 | 28 | 2 | 2 | 14 | 7 | 554 |
| DISEASES OF THE CIRCULATORY SYSTEM— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pericarditis ... ... ... ... ... | 16 | 1 | — | — | — | — | — | — | — | — | 3 | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | 22 |
| Endocarditis ... ... ... ... ... | 18 | 2 | — | 1 | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 22 |
| Valvular—Mitral ... ... ... ... | 41 | 55 | 2 | 1 | 2 | 12 | 3 | 2 | 13 | 1 | 12 | — | 3 | 6 | — | — | 3 | — | — | 11 | 1 | 7 | — | 1 | 2 | 178 |
| Aortic ... ... ... ... | 46 | 6 | — | — | 1 | — | — | 2 | 2 | 1 | 6 | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | 66 |
| Tricuspid ... ... ... ... | 1 | — | — | — | — | — | — | — | — | — | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 |
| Pulmonary ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Arterial Sclerosis ... ... ... ... | 2 | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 5 |
| Aneurism ... ... ... ... ... | 4 | 2 | — | — | — | — | — | — | — | — | 2 | — | — | 1 | — | — | — | — | — | 1 | — | — | — | — | 3 | 13 |
| Other Diseases ... ... ... ... ... | 8 | 39 | — | — | — | 12 | 1 | 1 | 3 | — | 6 | — | 2 | — | 57 | — | 22 | 8 | — | — | 1 | — | — | 10 | 3 | 173 |
| DISEASES OF THE RESPIRATORY SYSTEM— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Laryngitis ... ... ... ... ... | 51 | 10 | 4 | — | 1 | — | 4 | 5 | 2 | — | 4 | — | — | 2 | — | 1 | 3 | 2 | — | — | — | — | — | 3 | — | 92 |
| Bronchitis ... ... ... ... ... | 1011 | 203 | 56 | 164 | 145 | 243 | 126 | 99 | 93 | 176 | 100 | 27 | 143 | 196 | 294 | 60 | 149 | 130 | — | 94 | 65 | 110 | 128 | 152 | 107 | 4061 |
| Broncho-Pneumonia ... ... ... ... | 4 | 11 | — | — | — | — | — | — | 5 | 1 | 2 | — | 2 | — | — | 1 | 1 | — | — | — | — | 1 | — | — | — | 28 |
| Abscess of Lung ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Gangrene of Lung ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 |
| Emphysema ... ... ... ... ... | 2 | — | — | — | — | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6 |
| Pleurisy... ... ... ... ... ... | 38 | 17 | — | 1 | 5 | 7 | 5 | 2 | — | 1 | 15 | — | 3 | 1 | — | 2 | 5 | 11 | — | 4 | 2 | — | 1 | 11 | 4 | 135 |
| Empyema ... ... ... ... ... | 1 | 2 | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 |
| Other Diseases... ... ... ... ... | 10 | 475 | 1 | 3 | 3 | 33 | 18 | 3 | 4 | 4 | 4 | 1 | 11 | 1 | 15 | 2 | 16 | 5 | — | 15 | 11 | 2 | 9 | 5 | 9 | 660 |
| DISEASES OF THE DIGESTIVE SYSTEM— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomatitis ... ... ... ... ... | 43 | 18 | 68 | 2 | 8 | 9 | 7 | 3 | 2 | 2 | 4 | — | 3 | 10 | 7 | — | 16 | 9 | — | 8 | 1 | 5 | 2 | 6 | — | 233 |
| Caries of Teeth ... ... ... ... | 333 | 54 | 19 | 29 | 77 | 57 | 17 | 26 | 20 | 18 | 72 | 14 | 54 | 42 | 2 | 3 | 50 | 28 | — | 18 | 12 | 21 | 29 | 32 | 21 | 1048 |
| Glossitis ... ... ... ... ... | 15 | 4 | — | 1 | — | 8 | 2 | 1 | — | — | 1 | — | — | — | 1 | — | — | — | — | 6 | 2 | — | — | — | — | 41 |
| Sore Throat ... ... ... ... ... | 50 | 65 | 3 | 3 | 7 | 8 | 1 | — | — | 1 | 22 | — | 10 | 1 | 2 | — | 25 | 11 | — | 3 | 8 | 8 | 4 | 2 | — | 234 |
| Inflammation of Tonsils ... ... ... | 40 | 23 | 5 | — | 5 | 14 | 4 | 8 | 5 | 5 | 15 | 1 | — | 5 | 22 | 2 | 7 | 2 | — | 7 | 4 | 12 | 3 | 4 | 8 | 201 |
| Gastritis ... ... ... ... ... | 27 | 28 | — | 11 | 39 | 9 | 6 | — | 4 | — | 19 | 1 | 4 | — | 10 | 3 | 5 | 1 | — | 8 | — | — | 1 | — | 8 | 184 |
| Ulceration of Stomach ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diseases of the Digestive System—<br>*continued.* | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hæmatemesis ... | 1 | — | — | — | — | 1 | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | 4 |
| Dilatation of Stomach | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | 1 |
| Stricture of Stomach ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Dyspepsia | 607 | 1048 | 83 | 121 | 97 | 113 | 34 | 12 | 20 | 36 | 60 | 17 | 68 | 98 | 119 | 45 | 154 | 98 | — | 59 | 49 | 78 | 46 | 142 | 54 | 3258 |
| Enteritis | 12 | 4 | — | — | — | 14 | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 31 |
| Appendicitis | — | — | — | 2 | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | 4 |
| Colitis ... | 1 | 1 | — | — | — | 5 | 3 | 2 | — | — | 5 | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 19 |
| Ulceration of Intestines | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sprue ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hernia ... | 53 | 11 | 3 | — | 4 | 4 | 1 | 4 | 11 | — | 3 | — | 10 | 12 | 4 | — | — | — | — | 3 | 2 | 4 | 13 | 12 | 13 | 157 |
| Diarrhœa | 176 | 70 | 30 | 29 | 109 | 61 | 48 | 11 | 12 | 21 | 23 | 26 | 44 | 65 | 31 | 7 | 38 | 11 | — | 7 | 4 | 9 | 13 | 16 | 17 | 878 |
| Constipation | 627 | 791 | 505 | 75 | 288 | 329 | 476 | 236 | 172 | 293 | 109 | 136 | 379 | 267 | 186 | 89 | 288 | 232 | — | 195 | 167 | 237 | 290 | 231 | 239 | 6839 |
| Colic | 68 | 28 | 9 | 1 | 2 | 29 | 2 | 11 | — | 5 | 19 | 5 | 3 | 9 | — | — | 40 | 4 | — | 10 | 22 | 18 | 3 | 11 | 4 | 303 |
| Hæmorrhoids ... | 11 | 12 | 11 | 2 | 2 | 5 | 2 | 1 | — | 1 | 10 | 3 | 6 | 4 | 8 | — | 12 | 5 | — | 6 | 14 | 2 | 1 | 5 | — | 123 |
| Pancreatitis | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hepatitis (Acute) | 13 | 8 | — | 5 | 1 | 3 | — | 7 | — | — | 21 | 2 | — | — | 3 | 2 | 5 | 2 | — | 5 | — | — | 7 | 4 | — | 88 |
| Abscess ... | 19 | 1 | — | — | — | 1 | — | — | — | — | — | — | — | 1 | 2 | — | — | — | — | 1 | — | — | — | — | — | 25 |
| Cirrhosis | 6 | 6 | — | — | — | — | 1 | — | — | — | 6 | — | — | — | — | — | 1 | — | — | 1 | — | — | — | — | — | 21 |
| Jaundice | 5 | — | 1 | — | — | — | 1 | 3 | — | — | — | — | — | 1 | — | — | — | — | — | 6 | — | — | 6 | — | — | 23 |
| Peritonitis | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | 3 |
| Ascites ... | 6 | 1 | — | 1 | — | 2 | — | — | — | 1 | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — | — | 1 | 14 |
| Other Diseases ... | 76 | 30 | 29 | 31 | 14 | 9 | 11 | 23 | 6 | — | 16 | — | 4 | 3 | 44 | 7 | 20 | 37 | — | 3 | 6 | 1 | 3 | 4 | — | 377 |
| Diseases of the Lymphatic System— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Splenitis | 48 | 6 | — | 6 | 1 | 21 | 18 | — | 1 | 2 | 33 | 3 | 4 | 7 | — | — | 23 | 14 | — | 10 | 16 | 14 | 2 | 26 | 7 | 262 |
| Inflammation of Lymphatic Gland ... | 53 | 31 | 3 | 11 | 20 | 24 | 8 | 1 | 5 | 14 | 6 | 4 | 13 | 14 | 4 | — | 20 | 13 | — | 4 | 7 | — | 12 | 11 | 7 | 285 |
| Suppuration | 1 | 8 | — | — | 2 | — | 1 | 1 | 1 | 1 | 4 | — | 7 | — | — | — | 1 | 2 | — | 1 | — | — | — | 7 | 3 | 40 |
| Lymphangitis ... | — | — | — | — | 1 | 1 | 1 | — | — | — | 3 | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 | 8 |
| Elephantiasis ... | 15 | 1 | — | — | — | — | — | — | 1 | — | 5 | — | 1 | — | — | — | — | — | — | — | 2 | 1 | — | — | — | 26 |
| Other Diseases... | — | 7 | — | 5 | — | — | 4 | 6 | 1 | 1 | — | 32 | — | 7 | 10 | 6 | — | — | — | — | — | 1 | — | — | — | 80 |
| Diseases of the Urinary System— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acute Nephritis | 9 | 10 | — | 1 | — | 1 | 1 | 1 | — | — | 5 | — | — | — | — | — | 1 | 1 | — | 9 | — | — | — | 4 | — | 43 |
| Bright's Disease | 15 | — | 2 | 3 | 1 | 2 | — | — | 1 | — | 7 | — | 3 | 2 | 6 | 1 | 1 | 1 | — | 4 | 3 | 2 | — | 2 | 2 | 58 |
| Pyelitis ... | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 |
| Calculus... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Renal Colic | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | 1 |
| Cystitis ... | 8 | 18 | — | 6 | — | 4 | 2 | 3 | 1 | — | 1 | — | 5 | 2 | 2 | — | 7 | 1 | — | 1 | — | — | 1 | 1 | — | 63 |
| Vesical Calculus | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Suppression | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hæmaturia | 1 | 2 | 2 | — | — | 3 | — | — | 1 | — | — | — | — | — | — | — | 2 | 1 | — | — | — | — | — | — | — | 12 |
| Chyluria | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Other Diseases... | 11 | 9 | — | — | — | 2 | — | 1 | 1 | — | — | — | — | — | 3 | — | 5 | 1 | — | — | — | — | — | — | 3 | 36 |
| Diseases of the Generative System—<br>*Male Organs.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urethritis | 4 | 4 | — | 3 | — | 6 | 2 | — | — | — | — | — | — | 1 | — | — | 8 | 1 | — | 4 | — | 5 | — | — | 2 | 40 |
| Gleet ... | — | — | — | — | — | 2 | — | 4 | — | — | — | — | — | — | 9 | — | 1 | — | — | 1 | — | — | 1 | 3 | — | 21 |

## Return of Out-Patients—Showing Details of Cases Treated in each Medical District in the year 1914—*continued.*

| Diseases. | With Medical Officers. | | | | | | | | | | | | | | | | With Dispensers only. | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Freetown Hospital. | Cline Town. | Freetown Gaol. | Kissy. | Moyamba. | Bo. | Daru. | Kaballa. | Batkanu. | Makene. | Bonthe. | Bandajuma. | Pujehun. | Kennema. | Waterloo. | Wellington (Weekly visit.) | Hastings. | Regent. | Goderich. | Kent. | York. | Banana Islands. | Sumbuyah. | Port Lokkoh. | Mano-Salija. | |
| Diseases of the Generative System—*continued.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stricture ... ... ... ... ... | 41 | 5 | 3 | 1 | 2 | 6 | 1 | — | 4 | — | 3 | — | 2 | 3 | 1 | — | 2 | — | — | — | — | 1 | — | 4 | 2 | 81 |
| Prostatitis ... ... ... ... ... | 1 | — | — | — | — | — | — | 1 | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | 7 |
| Soft Chancre ... ... ... ... .. | 21 | — | 1 | — | 21 | 9 | 3 | 1 | 4 | 4 | — | 7 | 13 | 13 | — | — | 3 | — | — | — | — | — | 6 | 3 | 3 | 112 |
| Condyloma ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Inflammation of Scrotum ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | 1 | — | 4 | 7 |
| Hydrocele ... ... ... ... .. | 10 | 6 | — | 1 | 3 | 3 | 2 | 4 | 4 | 1 | 4 | — | — | 1 | — | — | — | — | — | — | 1 | — | 1 | 4 | 2 | 47 |
| Orchitis... ... ... ... ... ... | 14 | 10 | 3 | 3 | 15 | 5 | 1 | 2 | 7 | 7 | 2 | 4 | 4 | 13 | 8 | — | 4 | 1 | — | — | 3 | 1 | 12 | 5 | 1 | 125 |
| Epididymitis ... ... ... ... ... | 8 | 1 | 1 | 1 | — | 5 | 3 | 2 | 1 | — | 1 | — | — | 2 | — | — | — | — | — | — | — | 2 | — | 3 | — | 30 |
| Abscess of Testicle ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 |
| Phimosis ... ... ... ... ... | 53 | 3 | — | 1 | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 59 |
| Other Diseases... ... ... ... ... | 4 | 2 | 1 | 2 | 4 | 9 | 9 | 3 | — | 1 | — | 1 | — | — | 1 | — | — | 2 | — | — | — | — | — | 4 | 2 | 45 |
| *Female Organs.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovaritis... ... ... ... ... ... | 4 | 2 | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | 6 | 3 | — | — | — | — | — | — | — | 16 |
| Ovarian Cyst ... ... ... ... ... | 10 | 6 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 16 |
| Endometritis ... ... ... ... ... | 15 | 3 | — | 2 | — | 2 | — | — | — | — | — | — | — | — | 31 | — | 1 | 3 | — | 14 | — | — | — | — | 1 | 72 |
| Displacement of Uterus ... ... .. | 12 | 6 | — | — | — | — | — | — | — | — | 3 | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | 22 |
| Vaginitis ... ... ... ... ... | 6 | — | — | — | — | — | — | — | 2 | — | 1 | — | 1 | 6 | 1 | — | — | — | — | — | — | — | — | 2 | 2 | 21 |
| Amenorrhœa ... ... ... ... .. | 59 | 87 | — | 4 | 3 | 3 | 2 | 3 | — | 6 | 4 | 5 | — | 7 | 36 | 2 | 21 | 9 | — | 1 | 2 | 5 | 18 | 15 | 8 | 300 |
| Dysmenorrhœa ... ... ... ... | 32 | 50 | 1 | 2 | 1 | 1 | — | 1 | 1 | — | 1 | 3 | 2 | 1 | 12 | 1 | 15 | 3 | — | 7 | 12 | 1 | 8 | 9 | 1 | 165 |
| Menorrhagia ... ... ... ... .. | 30 | 40 | — | 4 | 1 | 2 | — | — | 1 | — | 9 | — | 1 | 2 | 4 | — | 2 | 1 | — | — | — | 3 | — | 3 | — | 103 |
| Leucorrhœa ... ... ... ... ... | 5 | 20 | — | — | — | — | — | — | — | — | — | — | — | — | 4 | — | 3 | — | — | 5 | — | — | 4 | 1 | — | 42 |
| Abortion ... ... ... ... ... | 7 | 8 | — | — | 1 | — | — | — | — | — | — | — | — | 4 | — | — | 4 | 4 | — | 1 | — | 2 | — | 2 | — | 33 |
| Delayed Labour ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 | 6 | — | — | 1 | 1 | — | 1 | — | 11 |
| Post-partum Hæmorrhage ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 |
| Retained Placenta ... ... ... ... | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | 1 | — | 2 | 2 | — | — | — | — | — | — | — | 6 |
| Premature Birth ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | 1 |
| Puerperal Septicæmia ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | 1 |
| Mastitis ... ... ... ... ... | — | 8 | — | 1 | — | 4 | 1 | 3 | 2 | — | — | — | 2 | — | 2 | — | 5 | — | — | — | — | 3 | — | 1 | — | 32 |
| Abscess of Breast ... ... ... ... | 5 | 2 | — | 1 | — | 1 | 3 | — | 1 | 1 | — | — | 1 | — | 1 | — | — | 1 | — | 1 | 1 | — | — | — | — | 19 |
| Other Diseases... ... ... ... ... | 68 | 128 | — | — | 4 | 2 | 6 | 3 | — | — | 4 | — | — | — | 2 | — | 4 | 16 | — | 2 | — | — | 2 | 4 | 1 | 246 |
| Diseases of Organs of Locomotion— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteitis ... ... ... ... ... ... | 5 | 1 | — | 1 | — | 2 | — | — | — | — | 2 | — | 2 | — | 2 | — | — | 2 | — | — | — | — | 4 | 9 | — | 30 |
| Arthritis ... ... ... ... ... | 36 | 146 | 3 | — | 2 | 1 | 46 | — | 1 | 1 | 11 | 2 | 2 | 14 | 1 | — | — | — | — | 2 | 1 | 3 | — | — | — | 272 |
| Spondylitis ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Bursitis ... ... ... ... ... | — | — | — | — | — | — | 1 | — | 1 | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 5 |
| Other Diseases... ... ... ... ... | 69 | 194 | — | 20 | 19 | 80 | 59 | 5 | 48 | 15 | 40 | 22 | 41 | 51 | 118 | 6 | 93 | 24 | — | 27 | 6 | — | 65 | 129 | 61 | 1192 |
| Diseases of Connective Tissue— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cellulitis ... ... ... ... .. | 37 | 26 | 1 | 4 | — | 2 | 3 | 1 | — | — | 9 | — | 2 | 3 | — | 3 | 3 | — | — | 3 | — | — | — | 4 | — | 101 |
| Abscess ... ... ... ... ... ... | 107 | 41 | 10 | 11 | 30 | 12 | 8 | 5 | 16 | 14 | 27 | 12 | 18 | 18 | 10 | 1 | 5 | 6 | — | 7 | 6 | 2 | 10 | 15 | 6 | 397 |
| Elephantiasis... ... ... ... ... | — | 2 | — | — | 5 | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | 12 |
| Other Diseases ... ... ... ... ... | — | 10 | — | — | 6 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 16 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DISEASES OF THE SKIN— | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urticaria ... ... ... ... ... | 4 | 4 | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | 12 |
| Eczema ... ... ... ... ... | 55 | 7 | 42 | 1 | 14 | 13 | 11 | 13 | 2 | 2 | 8 | 4 | 3 | 11 | 15 | — | 16 | 2 | — | 12 | 19 | — | 3 | 8 | 1 | 262 |
| Boil ... ... ... ... ... ... | 46 | — | 3 | 13 | 11 | 15 | 1 | — | 5 | — | 6 | — | 7 | 9 | 18 | 4 | 13 | 7 | — | 4 | 3 | 6 | 2 | 6 | — | 179 |
| Carbuncle ... ... ... ... ... | — | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | 4 | — | 7 |
| Herpes ... ... ... ... ... | 11 | 7 | — | 1 | 2 | 1 | — | 1 | 1 | — | — | — | — | — | 6 | 1 | 3 | 1 | — | 7 | 7 | 1 | — | 2 | 1 | 63 |
| Psoriasis ... ... ... ... ... | 3 | 1 | — | — | — | 5 | — | 3 | 2 | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 | — | 16 |
| Oriental Sore ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Tinea ... ... ... ... ... ... | 28 | 18 | 2 | — | 13 | 3 | 14 | — | 1 | 3 | 13 | — | 4 | 19 | 11 | — | 6 | 4 | — | — | 2 | 1 | 9 | — | 2 | 153 |
| Scabies ... ... ... ... ... | 26 | 7 | 13 | — | 29 | 23 | 19 | 22 | 19 | 1 | 11 | 12 | 82 | 32 | — | 1 | 4 | 1 | — | 10 | 20 | 1 | 20 | 10 | 56 | 419 |
| Acne ... ... ... ... ... ... | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | 3 |
| Prickly Heat ... ... ... ... ... | 13 | — | — | — | — | 3 | — | — | — | — | — | — | — | — | 2 | — | — | — | — | 3 | — | — | — | — | — | 21 |
| Ulcers ... ... ... ... ... .. | 942 | 136 | 12 | 35 | 75 | 222 | 152 | 22 | 85 | 158 | 208 | 71 | 93 | 239 | 135 | 20 | 84 | 33 | — | 39 | 144 | 50 | 284 | — | 89 | 3328 |
| Other Diseases ... ... ... ... ... | 82 | 54 | 262 | — | 12 | 6 | 53 | 49 | 48 | 26 | 20 | 1 | 6 | 39 | 22 | — | 16 | 7 | — | 12 | — | 3 | 16 | 179 | 9 | 922 |
| INJURIES— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 8 | — | — | — | — | — | — | — | — | — | — | — | 9 |
| Local ... ... ... ... ... ... | 799 | 399 | 5 | 55 | 203 | 209 | 270 | 76 | 87 | 178 | 98 | 136 | 152 | 107 | 68 | 23 | 143 | 75 | — | 63 | 32 | 68 | 72 | 88 | 69 | 3465 |
| SURGICAL OPERATIONS ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| TUMOURS ... ... ... ... ... ... | — | 10 | — | 2 | 11 | 5 | 5 | — | 3 | — | 6 | — | — | — | — | — | 1 | 3 | — | 8 | — | — | — | 11 | 1 | 66 |
| MALFORMATIONS ... ... ... ... ... | 1 | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | 3 |
| POISONS ... ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| PARASITES— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Animal.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protozoa ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Trematoda (Flukes) ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| *Cestoda.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tænia solium ... ... ... ... ... | 30 | 14 | — | 3 | 5 | 6 | 13 | — | 6 | 1 | 3 | 2 | 2 | 3 | 12 | 2 | 23 | 7 | — | 3 | 2 | — | 13 | 8 | 1 | 159 |
| Tænia saginata ... ... ... ... ... | — | 7 | 3 | — | — | — | — | 12 | — | — | — | — | — | 21 | — | — | — | — | — | — | — | 12 | — | — | — | 55 |
| *Nematoda.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ascaris ... ... ... ... ... ... | 97 | 59 | — | 80 | 67 | 33 | 41 | 50 | 33 | 30 | 57 | 5 | 15 | 10 | 121 | 46 | 96 | 39 | — | 55 | 95 | 69 | 29 | 23 | 76 | 1226 |
| Tricocephalus dispar ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Trichina ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Dracunculus ... ... ... ... ... | 2 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 |
| Filariasis ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Strongylus ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Ankylostomiasis ... ... ... ... | 1 | 1 | — | — | — | 1 | 7 | 7 | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 18 |
| Oxyuris ... ... ... ... ... | 1 | 1 | — | 1 | — | — | — | — | 3 | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | 7 |
| *Insecta.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myiasis ... ... ... ... ... ... | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | 1 | — | 4 |
| Other Diseases ... ... ... ... ... | — | 67 | — | — | — | 6 | 10 | — | 5 | 1 | — | 1 | 10 | 16 | 4 | — | 3 | 6 | — | 1 | 4 | — | — | 4 | 1 | 139 |
| N. Y. D. ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | 1 | — | — | 1 | — | — | — | 5 | — | — | — | 9 |
| TOTALS ... ... ... ... | 8959 | 5844 | 1396 | 1136 | 1896 | 2365 | 1965 | 969 | 1022 | 1376 | 1420 | 803 | 1716 | 2087 | 2203 | 420 | 2038 | 1116 | — | 1055 | 1179 | 1171 | 1566 | 1759 | 1263 | 46724 |

# VITAL STATISTICS—FREETOWN, 1914.

## *Table* A.

### TABLE SHOWING THE INFANTILE MORTALITY.

| — | 24 Hours and under. | | 1 Day to 1 Week. | | 1 to 2 Weeks. | | 2 to 3 Weeks. | | 3 Weeks to 1 Month. | | 1 to 2 Months. | | 2 to 3 Months. | | 3 to 4 Months. | | 4 to 5 Months. | | 5 to 6 Months. | | 6 to 7 Months. | | 7 to 8 Months. | | 8 to 9 Months. | | 9 to 10 Months. | | 10 to 11 Months. | | 11 to 12 Months. | | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | |
| January ... ... ... ... ... | 4 | — | 4 | 6 | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 | 23 |
| February ... ... ... ... ... | 3 | — | — | 1 | 1 | — | — | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | 10 |
| March ... ... ... ... ... | 2 | 4 | 3 | 1 | — | 2 | 1 | — | — | — | 1 | — | — | — | 1 | — | — | 1 | — | — | 2 | — | — | — | — | — | — | — | — | — | 1 | 3 | 22 |
| April ... ... ... ... ... | 4 | — | 1 | — | 1 | — | — | — | — | — | — | 1 | — | — | — | 1 | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 9 |
| May ... ... ... ... .. | 3 | 2 | 4 | 3 | — | — | 1 | — | — | — | — | 1 | — | 1 | — | — | 1 | 1 | 1 | — | — | 3 | — | — | — | — | — | — | — | — | 1 | 1 | 25 |
| June ... ... ... ... ... | 6 | 3 | 3 | 1 | — | 2 | — | 1 | 1 | — | 1 | — | — | 1 | 3 | — | — | 1 | 2 | 1 | — | 1 | — | — | — | 2 | — | — | 1 | — | 2 | 2 | 34 |
| July ... ... ... ... ... | 4 | 3 | — | 1 | 1 | — | — | 1 | 1 | — | — | 1 | 1 | 1 | — | 1 | — | — | 2 | 2 | — | 2 | — | — | 1 | — | — | — | — | — | — | 2 | 24 |
| August ... ... ... ... ... | 3 | 1 | 2 | 1 | — | — | 1 | 1 | — | — | 1 | 1 | 1 | 1 | 1 | 1 | 1 | — | 1 | 1 | 1 | — | — | 1 | — | — | — | — | 1 | — | — | 1 | 21 |
| September ... ... ... ... | 1 | 1 | 2 | 1 | — | — | — | — | — | — | — | 1 | — | — | — | 1 | — | — | — | — | — | — | — | — | 2 | 1 | — | — | — | — | — | — | 10 |
| October ... ... ... ... ... | 4 | 2 | 6 | 1 | — | — | — | — | — | 1 | 1 | — | — | — | 1 | 1 | — | — | — | — | 1 | — | — | — | — | — | — | 1 | — | — | — | — | 19 |
| November ... ... ... ... | 2 | 1 | 5 | — | 1 | 1 | — | 1 | — | 4 | — | 1 | 2 | — | — | — | — | — | — | — | 1 | — | — | — | — | — | 1 | — | — | — | — | — | 18 |
| December ... ... ... ... | — | 2 | 4 | 3 | 2 | — | 2 | 1 | — | — | — | 3 | 1 | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 19 |
| TOTAL ... ... ... | 36 | 19 | 34 | 19 | 6 | 5 | 7 | 8 | 2 | 5 | 7 | 9 | 6 | 4 | 6 | 5 | 3 | 3 | 6 | 4 | 7 | 6 | — | 1 | 3 | 3 | 1 | 1 | 3 | — | 5 | 10 | 234 |

### *Table* B.

### TABLE SHOWING THE MORTALITY OVER TWELVE MONTHS.

| — | 1 to 5 Years. | | 5 to 10 Years. | | 10 to 15 Years. | | 15 to 20 Years. | | 20 to 25 Years. | | 25 to 35 Years. | | 35 to 45 Years. | | 45 to 55 Years. | | 55 to 65 Years. | | 65 to 75 Years. | | Over 75 Years. | | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | |
| January ... ... ... | 2 | — | — | 1 | — | 1 | 2 | 1 | 3 | 2 | 5 | 1 | 3 | 3 | 3 | 5 | 5 | 2 | 3 | 5 | 3 | 2 | 52 |
| February ... ... ... | 4 | 3 | 1 | — | — | — | — | — | 1 | — | 7 | 2 | 7 | 4 | 6 | — | 4 | 2 | 2 | — | — | 4 | 47 |
| March ... ... ... | 3 | 5 | 1 | 1 | 2 | — | 3 | — | 1 | 3 | 3 | 5 | 13 | 5 | 3 | — | 6 | 5 | 2 | 2 | — | 2 | 65 |
| April ... ... ... | 5 | 5 | 2 | — | — | 1 | 2 | 1 | 3 | 1 | 11 | 3 | 2 | 3 | 7 | 3 | 3 | 7 | 2 | — | 1 | 2 | 64 |
| May... ... ... ... | 3 | 2 | — | 3 | 2 | 1 | 4 | 1 | 4 | 1 | 4 | 3 | 6 | 4 | 6 | 1 | 4 | 3 | 2 | 1 | 2 | 2 | 59 |
| June... ... ... ... | 4 | 3 | — | — | 1 | — | 2 | 1 | 4 | — | 8 | 4 | 2 | 4 | 3 | 3 | 8 | 2 | — | 1 | 1 | 2 | 53 |
| July... ... ... ... | 5 | 5 | 2 | 2 | 1 | 2 | 3 | — | 3 | 3 | 5 | 3 | 4 | 3 | 3 | — | 5 | — | 2 | 4 | 2 | 3 | 60 |
| August ... ... ... | 1 | 2 | 3 | 1 | — | — | 2 | — | 3 | 1 | 5 | 6 | 8 | 5 | 2 | 4 | 3 | 5 | 3 | 6 | — | 3 | 63 |
| September ... ... ... | 1 | 1 | — | — | — | 1 | 2 | 1 | 4 | — | 3 | 2 | 1 | 1 | 1 | — | 5 | 1 | 3 | 4 | 1 | 2 | 34 |
| October ... ... ... | 4 | 1 | 1 | 1 | — | — | 2 | — | 1 | — | 3 | 3 | 3 | 3 | 2 | 1 | — | 3 | 1 | 2 | 2 | 2 | 35 |
| November ... ... ... | 3 | 2 | 1 | 2 | — | — | 1 | 1 | 2 | 1 | 2 | 3 | 2 | 2 | 3 | 5 | 3 | 1 | 1 | 2 | 1 | 3 | 41 |
| December ... ... ... | — | 3 | — | — | — | — | 3 | 1 | 1 | 3 | 4 | 5 | 9 | 3 | 7 | 2 | 2 | 4 | 2 | 1 | 1 | 1 | 52 |
| TOTAL ... ... | 35 | 32 | 11 | 11 | 6 | 6 | 26 | 7 | 30 | 15 | 60 | 40 | 60 | 40 | 46 | 24 | 48 | 35 | 23 | 28 | 14 | 28 | 625 |

## *Table* C.

### Table showing the Mortality due to different Diseases up to the age of Five Years.

| Diseases. | 24 Hours and under. | | 1 Day to 1 Week. | | 1 to 2 Weeks. | | 2 to 3 Weeks. | | 3 Weeks to 1 Month. | | 1 to 2 Months. | | 2 to 3 Months. | | 3 to 4 Months. | | 4 to 5 Months. | | 5 to 6 Months. | | 6 to 7 Months. | | 7 to 8 Months. | | 8 to 9 Months. | | 9 to 10 Months. | | 10 to 11 Months. | | 11 to 12 Months. | | 1 to 5 Years. | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | |
| Infective Diseases ... ... | — | — | 7 | 6 | 2 | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 5 | 2 | 23 |
| Malarial Fever ... ... ... | — | — | 2 | 3 | 2 | 2 | 4 | 1 | — | 1 | 3 | 1 | 1 | — | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | — | — | 1 | — | — | 1 | — | — | — | 2 | 12 | 6 | 54 |
| Measles ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Whooping Cough ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Exhaustion ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Nervous System ... ... | — | — | 1 | 2 | 2 | — | — | — | 1 | 1 | 1 | 3 | 3 | 2 | 2 | 1 | — | — | 2 | — | 1 | 2 | — | 1 | 1 | — | — | — | 2 | — | 2 | 4 | 10 | 14 | 58 |
| Circulatory ,, ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Respiratory ,, ... ... | 8 | 2 | 4 | — | — | 2 | 1 | 2 | — | 2 | — | 2 | 1 | 1 | 2 | — | — | 1 | 2 | — | 3 | 1 | — | — | — | 3 | 1 | — | 1 | — | 2 | 4 | — | 4 | 49 |
| Digestive ,, ... ... | — | — | — | — | — | 1 | 2 | 4 | 1 | — | 3 | 2 | 1 | 1 | — | 1 | 2 | 1 | 1 | 2 | — | 1 | — | — | 1 | — | — | — | — | — | 1 | — | 5 | 4 | 34 |
| Lymphatic ,, ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 |
| Urinary ,, ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 |
| Premature Birth ... ... | 28 | 17 | 18 | 8 | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 72 |
| Connective Tissue ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Injuries ... ... .. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Parasites ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 |
| Unclassified ... ... ... | — | — | 2 | — | — | — | — | — | — | — | — | 1 | — | — | — | 1 | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 2 | — | 7 |
| Total ... ... | 36 | 19 | 34 | 19 | 6 | 5 | 7 | 8 | 2 | 5 | 7 | 9 | 6 | 4 | 6 | 5 | 3 | 3 | 6 | 4 | 7 | 6 | — | 1 | 3 | 3 | 1 | 1 | 3 | — | 5 | 10 | 35 | 32 | 301 |

## *Table* D.

### TABLE SHOWING THE MORTALITY DUE TO DIFFERENT DISEASES OVER FIVE YEARS.

| DISEASES. | 5 to 10 Years. | | 10 to 15 Years. | | 15 to 20 Years. | | 20 to 25 Years. | | 25 to 35 Years. | | 35 to 45 Years. | | 45 to 55 Years. | | 55 to 65 Years. | | 65 to 75 Years. | | Over 75 Years. | | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | |
| Infective Diseases— | | | | | | | | | | | | | | | | | | | | | |
| Dysentery ... ... ... ... | 2 | 1 | — | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 3 | 3 | 1 | 2 | 2 | 1 | — | 4 | 1 | — | 33 |
| Fever, Malarial ... ... ... | 2 | 4 | 1 | — | 1 | — | — | — | 4 | 2 | 2 | 1 | — | 4 | 3 | 3 | 1 | — | — | 1 | 29 |
| ,, Blackwater ... ... ... | — | — | — | — | — | — | 1 | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 3 |
| Pneumonia ... ... ... ... | — | — | 1 | 2 | 3 | — | 4 | 1 | 2 | 2 | 6 | 3 | 4 | 2 | 2 | 2 | 3 | 1 | — | — | 38 |
| Septicæmia ... ... ... ... | — | — | — | — | 1 | — | — | 1 | 5 | — | 1 | 2 | — | 1 | 1 | — | — | — | — | — | 12 |
| Syphilis ... ... ... ... | — | 1 | — | — | — | — | — | — | 2 | — | 2 | — | 1 | — | — | — | — | — | — | — | 6 |
| Trypanosomiasis ... ... ... | — | — | — | — | 1 | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | 3 |
| Tuberculosis ... ... ... ... | — | — | — | 1 | 3 | 2 | 2 | 3 | 5 | 7 | 6 | 4 | 4 | 1 | 2 | — | — | — | — | — | 40 |
| Other Diseases ... ... ... | 1 | — | 1 | 1 | 1 | — | 3 | — | 4 | — | 2 | 3 | 1 | — | 2 | — | — | — | — | 1 | 20 |
| General Diseases— | | | | | | | | | | | | | | | | | | | | | |
| Debility ... ... ... ... | — | — | — | — | — | — | — | — | 1 | 2 | — | 1 | — | — | 3 | 7 | 7 | 6 | 8 | 22 | 57 |
| Rheumatism ... ... ... ... | 1 | — | — | — | 1 | — | 3 | — | 7 | 4 | 3 | 1 | 2 | — | 2 | 3 | 1 | 1 | — | — | 29 |
| Other Diseases ... ... ... | — | — | — | — | — | — | — | — | — | — | — | 1 | 2 | — | — | 1 | — | — | — | — | 4 |
| Local Diseases— | | | | | | | | | | | | | | | | | | | | | |
| Circulatory System ... ... ... | — | — | — | — | 1 | 1 | 3 | 2 | 6 | 4 | 5 | 7 | 3 | 5 | 4 | 4 | 3 | 3 | 4 | 1 | 56 |
| Respiratory ,, ... ... ... | 1 | 2 | 1 | — | 2 | — | 4 | 2 | 4 | 1 | 10 | 4 | 5 | 3 | 6 | 2 | 3 | 1 | 1 | 2 | 54 |
| Digestive ,, ... ... ... | 1 | 3 | 1 | — | 6 | 1 | 6 | 1 | 7 | 7 | 10 | 6 | 8 | 4 | 10 | 4 | 2 | 5 | — | 1 | 83 |
| Lymphatic ,, ... ... ... | 3 | — | 1 | — | 1 | 1 | 1 | — | 3 | — | 5 | 3 | 8 | 2 | 8 | 3 | 3 | 3 | — | — | 45 |
| Urinary ,, ... ... ... | — | — | — | — | 2 | — | — | 1 | 3 | 3 | 3 | — | 4 | — | 3 | 4 | — | — | — | — | 23 |
| Generative Organs ... ... ... | — | — | — | — | — | — | 1 | 3 | — | 4 | 1 | 1 | 2 | — | — | 1 | — | 2 | — | — | 15 |
| Organs of Locomotion ... ... | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Connective Tissue ... ... ... | — | — | — | — | 1 | — | — | — | — | — | — | — | 1 | — | — | — | — | 1 | — | — | 3 |
| Diseases of Skin ... ... ... | — | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — | — | — | 1 | — | — | 3 |
| Injuries ... ... ... ... | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Parasites ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| TOTAL ... ... | 11 | 11 | 6 | 6 | 26 | 7 | 30 | 15 | 60 | 40 | 60 | 40 | 46 | 24 | 48 | 35 | 23 | 28 | 14 | 28 | 558 |

## *Table* E.

### TABLE SHOWING THE MORTALITY DUE TO DIFFERENT DISEASES AT ALL AGES.

| DISEASES. | January. | | February. | | March. | | April. | | May. | | June. | | July. | | August. | | September. | | October. | | November. | | December. | | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | |
| Infective Diseases— | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dysentery ... ... ... ... | — | — | — | — | 1 | 2 | 1 | 1 | — | 1 | 2 | — | 5 | 4 | 4 | 5 | 1 | 2 | — | 1 | — | 1 | 1 | 1 | 33 |
| Fever, Malarial ... ... ... | 6 | — | 1 | 1 | 6 | 6 | 5 | 6 | 1 | 3 | 4 | 1 | 4 | 6 | 6 | 6 | 1 | 2 | 6 | 2 | 3 | 3 | 3 | 1 | 83 |
| ,, Blackwater ... ... ... | — | — | 1 | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 3 |
| Pneumonia ... ... ... ... | 2 | — | 2 | 1 | 5 | 1 | 2 | 2 | 3 | — | 1 | 2 | 1 | 2 | 3 | 4 | 3 | — | 1 | — | 2 | — | — | 1 | 38 |
| Septicæmia ... ... ... ... | 1 | 2 | 1 | — | — | 1 | — | 1 | 1 | 1 | — | — | 2 | — | — | — | — | — | — | — | 1 | — | — | 1 | 12 |
| Syphilis ... ... ... ... | 1 | 1 | 1 | — | — | — | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | 1 | — | — | 6 |
| Trypanosomiasis ... ... ... | — | — | 1 | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 |
| Tubercle ... ... ... ... | — | — | 2 | — | 2 | 3 | — | 2 | 1 | 2 | — | 4 | 3 | 3 | 3 | 3 | 1 | — | 1 | — | 2 | 1 | 5 | 2 | 40 |
| Other Diseases— | | | | | | | | | | | | | | | | | | | | | | | | | |
| General Diseases .. ... ... | 2 | 3 | 3 | — | — | — | 4 | 1 | 10 | 3 | 2 | 3 | 2 | — | 4 | 1 | 1 | — | — | 1 | 1 | — | 1 | 1 | 43 |
| Debility... ... ... ... ... | 4 | 6 | — | 5 | — | 3 | 1 | 3 | 3 | 2 | 2 | 4 | 2 | 3 | 1 | 4 | 1 | 1 | 2 | 1 | 1 | 4 | 2 | 2 | 57 |
| Rheumatism ... ... ... ... | 3 | — | 2 | — | 3 | 2 | 3 | — | 2 | 2 | 1 | — | 1 | — | 1 | — | — | — | 1 | 1 | 1 | 2 | 2 | 2 | 29 |
| Other Diseases ... ... ... ... | 1 | 1 | — | — | — | — | — | — | 1 | 1 | 2 | 1 | — | — | — | — | — | — | — | — | 1 | 1 | 1 | 1 | 11 |
| Local Diseases— | | | | | | | | | | | | | | | | | | | | | | | | | |
| Circulatory System ... ... ... | 4 | 4 | 4 | 1 | 4 | 2 | 1 | 2 | 2 | 1 | 3 | 2 | — | 2 | 2 | 1 | 3 | 3 | 4 | 3 | 1 | 3 | 1 | 3 | 56 |
| Respiratory ,, ... ... ... | 8 | 7 | 3 | 3 | 7 | 6 | 7 | 1 | 5 | 5 | 6 | 4 | 3 | 3 | 5 | 1 | 3 | 2 | 1 | 2 | 6 | 6 | 7 | 2 | 103 |
| Digestive ,, ... ... ... | 3 | 1 | 6 | 3 | 7 | 4 | 6 | 3 | 10 | 6 | 8 | 3 | 8 | 6 | 6 | 12 | 4 | 3 | 3 | 2 | 2 | 3 | 5 | 3 | 117 |
| Lymphatic ,, ... ... ... | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Nervous ,, ... ... ... | 3 | 2 | 6 | 3 | 7 | 3 | 5 | 4 | 4 | 4 | 12 | 7 | 6 | 4 | 4 | 2 | 4 | 1 | 6 | 3 | 5 | 2 | 2 | 4 | 103 |
| Urinary ,, ... ... ... | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | — | — | — | — | 2 | — | 2 | — | — | — | — | 2 | 1 | — | 4 | 3 | 24 |
| Generative Organs ... ... ... | — | — | 1 | — | 1 | 1 | 1 | — | — | 1 | 2 | 1 | 1 | 1 | — | 1 | — | 1 | 2 | 1 | — | — | — | — | 15 |
| Organs of Locomotion ... ... ... | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Connective Tissue ... ... ... | 1 | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — | — | 4 |
| Diseases of skin ... ... .. | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | 1 | — | — | — | — | — | — | 1 | — | 3 |
| Injuries ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 |
| Parasites ... ... ... .. | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 |
| Premature Birth ... ... ... | 4 | 2 | 3 | 1 | 3 | 4 | 6 | — | 4 | 2 | 4 | 3 | 4 | 4 | 1 | 1 | 4 | 2 | 4 | 3 | 4 | 1 | 3 | 5 | 72 |
| TOTAL ... ... ... ... | 45 | 30 | 38 | 19 | 48 | 39 | 45 | 28 | 48 | 36 | 52 | 35 | 45 | 39 | 42 | 42 | 26 | 18 | 32 | 22 | 31 | 28 | 39 | 32 | 859 |

## *Table* F.

### TABLE SHOWING THE DISTRIBUTION OF DEATHS ACCORDING TO MONTHS AND SEXES.

| | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Male ... ... ... ... | 45 | 38 | 48 | 45 | 48 | 52 | 45 | 42 | 26 | 32 | 31 | 39 | 491 |
| Female ... ... ... ... | 30 | 19 | 39 | 28 | 36 | 35 | 39 | 42 | 18 | 22 | 28 | 32 | 368 |
| TOTAL ... ... | 75 | 57 | 87 | 73 | 84 | 87 | 84 | 84 | 44 | 54 | 59 | 71 | 859 |

# VITAL STATISTICS—CLINES—MOHAMMEDAN SECTION—FROM JUNE TO DECEMBER, 1914.

## *Table* A.

## Table showing the Infantile Mortality.

| | 24 Hours and Under. | | 1 Day to 1 Week. | | 1 to 2 Weeks. | | 2 to 3 Weeks. | | 3 Weeks to 1 Month. | | 1 to 2 Months. | | 2 to 3 Months. | | 3 to 4 Months. | | 4 to 5 Months. | | 5 to 6 Months. | | 6 to 7 Months. | | 7 to 8 Months. | | 8 to 9 Months. | | 9 to 10 Months. | | 10 to 11 Months. | | 11 to 12 Months. | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | |
| January ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| February ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| March ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| April ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| May ... ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| June ... ... ... ... ... | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| July ... ... ... ... ... | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 4 |
| August ... ... ... ... ... | 1 | — | 1 | 2 | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6 |
| September ... ... ... ... | — | 1 | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 |
| October ... ... ... ... ... | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 |
| November ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | 2 |
| December ... ... ... ... | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Total ... ... ... | 2 | 1 | 5 | 4 | 1 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | 19 |

## *Table* B.

## TABLE SHOWING THE MORTALITY OVER TWELVE MONTHS.

| | 1 to 5 Years. | | 5 to 10 Years. | | 10 to 15 Years. | | 15 to 20 Years. | | 20 to 25 Years. | | 25 to 35 Years. | | 35 to 45 Years. | | 45 to 55 Years. | | 55 to 65 Years. | | 65 to 75 Years. | | Over 75 Years. | | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | |
| January ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| February ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| March ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| April ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| May ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| June ... ... ... | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 | 3 |
| July ... ... ... | 1 | 3 | — | — | — | — | — | — | — | 1 | — | — | 1 | — | — | — | — | — | — | 1 | — | — | 7 |
| August ... ... ... | — | 1 | — | 1 | — | — | — | — | — | — | 1 | — | — | — | — | — | — | 1 | — | — | — | — | 4 |
| September ... ... ... | 1 | 1 | — | 1 | — | — | — | — | — | 1 | — | 2 | — | — | — | — | — | — | — | 1 | — | — | 7 |
| October ... ... ... | — | — | — | — | — | — | — | — | — | — | 1 | 2 | — | — | — | — | — | 1 | — | — | 1 | — | 5 |
| November ... ... ... | 1 | — | 1 | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — | — | 1 | — | — | — | 1 | 6 |
| December ... ... ... | 1 | 1 | — | — | — | — | — | — | — | — | 1 | 1 | 1 | 1 | — | — | — | — | — | — | — | — | 6 |
| TOTAL ... ... | 4 | 6 | 1 | 2 | — | — | — | 1 | — | 3 | 4 | 5 | 3 | 1 | — | — | — | 3 | — | 2 | 1 | 2 | 38 |

## *Table* C.

### Table showing the Mortality due to different Diseases up to the age of Five years.

| Diseases. | 24 Hours and Under. | | 1 Day to 1 Week. | | 1 to 2 Weeks. | | 2 to 3 Weeks. | | 3 Weeks to 1 Month | | 1 to 2 Months. | | 2 to 3 Months. | | 3 to 4 Months. | | 4 to 5 Months. | | 5 to 6 Months. | | 6 to 7 Months. | | 7 to 8 Months. | | 8 to 9 Months. | | 9 to 10 Months. | | 10 to 11 Months | | 11 to 12 Months. | | 1 to 5 Years. | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | |
| Malarial Fever ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 |
| Measles ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Whooping Cough ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Exhaustion ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Nervous System ... ... | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Circulatory System ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Respiratory System ... ... | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 | 6 |
| Digestive System ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | 2 |
| Lymphatic System ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Urinary System... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Premature Birth ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Connective Tissue ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Injuries ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Parasites ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unclassified ... ... ... | 1 | 1 | 5 | 4 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | 3 | 2 | 19 |
| Total ... ... | 2 | 1 | 5 | 4 | 1 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | 1 | — | — | — | — | — | — | — | 1 | — | 1 | — | 4 | 6 | 29 |

## *Table* D.

## TABLE SHOWING THE MORTALITY DUE TO DIFFERENT DISEASES OVER FIVE YEARS.

| DISEASES. | 5 to 10 Years. | | 10 to 15 Years. | | 15 to 20 Years. | | 20 to 25 Years. | | 25 to 35 Years. | | 35 to 45 Years. | | 45 to 55 Years. | | 55 to 65 Years. | | 65 to 75 Years. | | Over 75 Years. | | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | |
| Infective Diseases— | | | | | | | | | | | | | | | | | | | | | |
| Dysentery ... ... ... ... | — | 1 | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 |
| Fever, Malarial ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| ,, Blackwater ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Pneumonia ... ... ... ... | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | 1 | — | — | 2 |
| Septicæmia ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Syphilis ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Trypanosomiasis ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Tuberculosis ... ... ... ... | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | 1 | — | — | 2 |
| Other Diseases ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| General Diseases— | | | | | | | | | | | | | | | | | | | | | |
| Debility ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 2 | 3 |
| Rheumatism ... ... ... ... | — | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — | 1 | — | — | — | — | 3 |
| Other Diseases ... ... ... | — | 1 | — | — | — | — | — | 3 | 1 | 1 | — | — | — | — | — | 2 | — | — | — | — | 8 |
| Local Diseases— | | | | | | | | | | | | | | | | | | | | | |
| Circulatory System ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Respiratory ,, ... ... ... | 1 | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — | — | — | — | — | 3 |
| Digestive ,, ... ... ... | — | — | — | — | — | — | — | — | 1 | 2 | — | 1 | — | — | — | — | — | — | — | — | 4 |
| Lymphatic ,, ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Urinary ,, ... ... ... | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Generative Organs ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Organs of Locomotion ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Connective Tissue ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Diseases of Skin— | | | | | | | | | | | | | | | | | | | | | |
| Injuries ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Parasites ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| TOTAL ... ... | 1 | 2 | — | — | — | 1 | — | 3 | 4 | 5 | 3 | 1 | — | — | — | 3 | — | 2 | 1 | 2 | 28 |

## *Table* E.

### TABLE SHOWING THE MORTALITY DUE TO DIFFERENT DISEASES AT ALL AGES.

| DISEASES | January. | | February. | | March. | | April. | | May. | | June. | | July. | | August. | | September. | | October. | | November. | | December. | | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F | M. | F. | |
| Infective Diseases— | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dysentery ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | 1 | — | — | — | — | — | — | — | — | 2 |
| Fever, Malaria ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | 1 | 2 |
| ,, Blackwater ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Pneumonia ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | 1 | — | — | — | — | — | 3 |
| Septicæmia ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Syphilis ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Trypanosomiasis ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Tubercle ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — | — | 2 |
| Other Diseases— | | | | | | | | | | | | | | | | | | | | | | | | | |
| General Diseases ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Debility ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | 2 | 1 | — | — | 1 | — | — | 5 |
| Rheumatism ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | 1 | — | — | 1 | — | 3 |
| Other Diseases ... ... ... | — | — | — | — | — | — | — | — | — | — | 1 | 1 | 3 | 3 | 3 | 2 | 2 | 5 | 1 | 1 | 1 | 1 | 2 | — | 26 |
| Local Diseases— | | | | | | | | | | | | | | | | | | | | | | | | | |
| Circulatory System ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Respiratory ,, ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | 2 | — | 1 | 1 | — | — | — | 1 | 3 | 1 | — | — | 9 |
| Digestive ,, ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | 1 | 2 | 4 |
| Lymphatic ,, ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Urinary ,, ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Generative Organs ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | 1 |
| Organs of Locomotion ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Connective Tissue ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Diseases of Skin ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Injuries ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Parasites ... ... ... ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| TOTAL ... ... ... | — | — | — | — | — | — | — | — | — | — | 1 | 3 | 5 | 6 | 4 | 6 | 2 | 8 | 3 | 4 | 5 | 3 | 4 | 3 | 57 |

## *Table* F.

### TABLE SHOWING THE DISTRIBUTION OF DEATHS ACCORDING TO MONTHS AND SEXES.

| | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Male ... ... ... ... | — | — | — | — | — | 1 | 5 | 4 | 2 | 3 | 5 | 4 | 24 |
| Female... ... ... ... | — | — | — | — | — | 3 | 6 | 6 | 8 | 4 | 3 | 3 | 33 |
| TOTAL ... ... ... | — | — | — | — | — | 4 | 11 | 10 | 10 | 7 | 8 | 7 | 57 |

# ANNUAL SANITARY REPORT

## FOR THE YEAR ENDING 31st DECEMBER, 1914,

BY THE

## SENIOR SANITARY OFFICER.

# INDEX.

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## I.—ADMINISTRATION.

There is little to record under this head for the year under review.

Dr. F. J. A. Beringer continued to act as Sanitary Officer during the year, and from 11th April to 17th October as Senior Sanitary Officer.

The appointment of a second Superintendent Sanitary Inspector was approved, and Staff-Sergeant J. Black, Royal Army Medical Corps, arrived in time to relieve Staff-Sergeant W. H. Jones, Royal Army Medical Corps, in June. The former returned to the Royal Army Medical Corps in England, and the latter was absorbed in the local Imperial Military Establishment on the 5th December. At the close of the year, therefore, the Sanitary Branch was without the services of a Superintendent Sanitary Inspector.

An elaborate scheme for regrading and reorganising the Sanitary Inspector Staff was prepared by Dr. Beringer, Junior Sanitary Officer, and approved. As it will involve a considerable increase in expenditure under the head of "Personal Emoluments" when put fully in operation, and it was not judged expedient to put it only partly in force, its introduction has been postponed for financial reasons. A small temporary increase in salaries for the inspectors was, however, agreed to, pending the larger change.

The Rules and Regulations for the Inspectors—drawn up by the Medical Officer of Health (Dr. W. Allan)—referred to in the Report for 1913, were circulated amongst them in book form. Lectures were delivered to the Inspectors, and examinations held on them by the Medical Officer of Health.

It is not proposed to discuss here the arrangement by which the Sanitary Engineer became an officer of the Public Works Department and executive head of the newly formed Sanitary Works Sub-Department of the Public Works Department. That embarrassment during most of the latter half of the year was experienced by almost every department is not lost sight of, and allowing for this it does not appear the arrangement agreed to regarding the Sanitary Engineer is likely to prove at all satisfactory to this branch of the Medical Department.

Extreme difficulty in recruiting suitable men as Sanitary Inspectors continues. It is hoped that a more satisfactory class of recruit will be forthcoming when the finances at the disposal of the branch are such as to allow of the very considerable increase in expenditure which the introduction of Dr. Beringer's scheme will require.

Unfortunately the services of the Medical Officer of Health, Freetown (Dr. W. Allan), were required for the Expedition to the Cameroons after the close of the year, but before he had had time to complete his Annual Report; the rough notes for which and all statistics connected with it, however, were presented before his departure.

## II.—LEGISLATION.

"An Ordinance to amend the law relating to Quarantine," No. 16 of 1914, was passed on the 2nd September (with Schedule of Quarantine Regulations), which brings the law on this subject in this Colony in line with that in the other British West African Colonies.

## III.—SANITARY BRANCH OFFICES AND DEPOTS.

The provision of Sanitary Branch Offices and a Central Depôt was considered, and some progress was made during the year; meanwhile, the old female prison block is being used temporarily. It is proposed that after the offices and central depôt have been provided, the provision of an Eastern and a Western Depôt and a Labourers' Compound or Compounds will be urged. The importance of such development need not be discussed now. Better and more convenient stabling for draught animals was arranged for, but was not available before the end of the year.

## IV.—STREETS, STREET DRAINS AND WATERCOURSES, FREETOWN.

It appears to be regarded as axiomatic that the comprehensive scheme for the reconstruction of streets and drains in Freetown must await the completion of the Ordnance Survey of the city. The reason for this view is not clear to this branch, where it is regarded as certain that, no matter by whom the laying out or actual work of the scheme may be undertaken, an independent survey must be made. In ordnance surveys which have been completed for Bathurst, Lagos, and other British West African towns a great deal is included which is not required for a streets and drains scheme, and all that is required for such a scheme is not included. The ordnance survey of the city was interrupted during the year and not afterwards resumed.

## V.—BROOKFIELDS DRAINAGE, FREETOWN.

A good deal of reference has been made to the intercepting drain at Brookfields in former reports, so that a short note here will suffice to indicate its condition at the close of the year, and what remains to be done.

The Acting Sanitary Engineer (Mr. O. G. Price) reports that during the year—

> "Eastwards from the highest point, for a length of 440 feet, forty cubic yards were excavated, leaving an invert grade of 1 in 27 discharging into the watercourse crossing Morgan Street. Westwards from the same point, for a length of 1,600 feet, six hundred and forty cubic yards were excavated, leaving an invert grade of 1 in 300 discharging into the culvert under the railway and thence into Congo River. It would have been an improvement to have had a flatter grade eastwards, but funds did not permit of this being done. The spoil from the drain is now being used to repair the roads in the neighbourhood, and is found excellent for the purpose."

The series of bore holes in the bottom of the drain referred to in the report for 1913 was not made, but the recommendations with reference to this proposal are still urged. Though it is not intended to advance it as any extra reason why these bore holes should be made, as this part of the scheme requires no more support than that advanced in the report for 1913, it may be incidentally remarked that should water under pressure be tapped by any of the bore holes and yield a steady flow into the dry season, it would prove a great boon to the persons living in the neighbourhood, in which naturally there are few standpipes.

## VI.—WELLS IN FREETOWN.

Reference was made at some length in the report for 1913 to the subject of wells in Freetown as breeding-places for mosquitoes; the remarks there were based on an investigation undertaken by the Medical Officer of Health. His report may be regarded almost as having proved the obvious, just as the condemnation, as domestic water supplies, of the wells, with an average distance of only 37·3 feet from cesspits, scarcely seems to require elaborate argument to prove. Yet it is still not appreciated by many that a source of domestic supply must be judged not only by what quality the water may at any time be found to be, but by what it may readily become at any moment owing to extraneous conditions, such as the close proximity of cesspools.

No wells were compulsorily closed in Freetown during the year.

Following on and as a result of Dr. W. Allan's investigation, more oiling of wells was done and more methodically, but only of wells which were found to contain mosquito larvæ, and only with the consent of the occupiers of the compounds in which the wells were.

## VII.—EXCAVATIONS, STONE QUARRIES, &c., IN FREETOWN.

It is not known in this branch that any progress has been made with the proposed draft Building Regulations Bill, under which it was anticipated in the report for 1913 the making of excavations and quarries, etc., in Freetown would be regulated and controlled.

## VIII.—FREETOWN WATER SUPPLY.

Progress was made in the work of augmenting the Freetown water supply from sources in the Babadori (Lumley) Valley. The question of reafforesting that valley was not brought forward for discussion. Farming, charcoal burning, timber cutting and firewood collection was still in progress, and habitations were still occupied within the area proposed to be reserved, and public passage through it remained unrestricted at the close of the year.

## IX.—SLAUGHTER HOUSE, FREETOWN.

No further action was taken with regard to the provision of the proposed new public slaughter-house.

Brief reference was made in the report for 1913 to arrangements having been made by the Imperial Military Authorities for the slaughtering of cattle by their contractor in premises owned by them. It does not appear that power existed to veto the proposal, but the fact that all the meat killed there is not consumed by the military, the remainder being sold to the public by the contractor, is unsatisfactory and embarrassing to the Public Health Authority, inasmuch as its opportunity to detect diseased meat from that focus is greatly diminished by its representatives not having authority to inspect immediately after slaughter before removal from the premises.

It is naturally the subject of comment, and believed by the butchers to be evidence of unequal dealing, that while carcases from the public slaughter house are frequently condemned, no case of seizure or condemnation of cysticercus meat has ever been reported to the Sanitary Office from the military slaughter house, or known to have taken place, knowing as they do that the presence of cysticercus infection cannot be detected till after slaughter, and therefore no special selection of live cattle can enable the exclusion of infected animals to be made, and the immunity cannot be due to extra careful cattle buying by the contractor to the military authorities. The contractor has not always been the same person.

The following table gives the number of animals slaughtered in the public slaughter house during the year :—

| Bullocks. | Sheep. | Swine. | Goats. | Total. |
|---|---|---|---|---|
| 3,742 | 420 | 49 | 13 | 4,224 |

The meat of 23 bullocks from this slaughter house was condemned on account of infection with *Cysticercus bovis*.

## X.—MOSQUITO INDICES, FREETOWN.

Inspections for determining mosquito indices in Freetown were made quarterly and reported in the quarterly reports of the Medical Officer of Health. A list of the mosquitoes bred out from the larvæ found in the inspection in September was included in the third quarterly report. The mosquitoes were kindly identified by Mr. A. Bacot, of the Yellow Fever Commission. Dr. R. W. Orpen (acting Medical Officer of Health) with the report for the first quarter submitted a list of natural breeding-places with a report by Dr. W. B. Johnson, of the Yellow Fever Commission, on the larvæ found.

The indices were as follows, without details as to premises, streets, articles or sites in which larvæ were found, etc. :—

(1) March 16th to 19th inclusive, 350 compounds examined; index, 0·28 per cent. (for comparison with the March, 1913, index, 250 compounds; index, 0·4 per cent.

(2) June 2nd to 6th inclusive, 250 compounds examined; index, 11·6 per cent.

(3) September 9th to 17th inclusive, 250 compounds examined; index, 25·2 per cent.

(4) December 11th to 30th inclusive, 250 compounds examined; index, 3·2 per cent.

In the September examination, 54 of the 63 breeding-places were in water-bearing plants, and the mosquitoes which were bred out from the larvæ were identified as follows :—

*Uranotænia*—? *Tigripes.*
*Eretinopodites*—? *Inornata.*
*Culex*—(near *Pipiens* group)
*Stegomyia simpsoni.*
*Eretinopodites*—probably *Quinquivitattus.*
*Stegomyia fasciata.*

The length of time that plants bear water during the year depends, of course, almost entirely on the length of the rainy season, and fortunately from this point of view a long period of drought is usual in Freetown. In the index examination in March wells were not examined for larvæ, and there was, of course, no plant-borne water at that time of the year.

That a wide area is represented by the 250 compounds is shown by the fact that the compounds were taken at random in 52 streets in the December inspection, which was a perfectly normally conducted one.

## XI.—FREETOWN POLICE COURT LARVÆ CASES.

The number of larvæ cases convicted in the Freetown Police Court during the year was 746, and the total amount in fines was £139 1s. 6d., giving an average of just under 3s. 9d. each.

## XII.—RAT DESTRUCTION, FREETOWN.

During the year 1,750 rats were brought to the Colonial Hospital, paid for and destroyed

## XIII.—BURNT AREA, FREETOWN.

The buildings over a large area in the western district of the city were destroyed by fire early in the year. The opportunity was promptly taken to do a large amount of useful scavenging over the fire-cleared area, particularly in the collection and disposal of incombustible rubbish.

This Branch was not consulted during the year regarding any measures or proposals relative to the situation created by this total destruction within a few hours of a considerable number of habitations, and the subject is therefore not discussed in this report.

## XIV.—PORT SANITARY WORK, FREETOWN.

The Port sanitary work continues to be performed by the Medical Officer of Health as well as he can. No further action has been taken with reference to the formation of a special Port Sanitary Staff, which was referred to in the report for 1913.

As a means of identification of persons otherwise than by names is required by Public Health Authorities in West Africa, especially in connection with Quarantine Regulations, it is thought well to make a few observations on the subject. Below* is a copy of a "permit" used as occasion has required at Freetown. It is not pretended that any one finger mark affords a reliable positive proof of identification, but it is probably sufficiently certain in most cases where identification is required in public health work. Where the print of the left thumb pulp on a permit does not correspond with that of the holder of the permit, it is certain that, if no mistake has been made, the holder of the permit is not the person to whom the permit was granted. It is especially important, however, that the person supervising the impression printing should make sure that the finger used is that described on the permit, or, failing a description being already given on the permit, that the finger used should be correctly described on the permit at the time of taking the print. Before anyone is accused of using a permit not issued to him, on the ground that the print impression does not correspond with that shown on the permit, all his fingers should be examined to see if any give prints corresponding to that on the permit, in case mistake in description may have been made. For instance, if the print on the permit be described as that of the pulp of the left thumb, but be found not to correspond with that of the left thumb of the permit holder, but does correspond with that of his right thumb or even one of his other fingers, and consultation with the person who took the original print is impossible, it will probably be injudicious or unfair, at least in West Africa, to proceed, on this ground alone, as though the holder of the permit was guilty of attempted fraud, especially if he be an illiterate native. But many of the finger prints on permits presented by persons arriving at Freetown have been quite useless as aids to identification. The two faults invalidating them have been want of clearness (faintness, blurring or smudging) and non-inclusion of the chief identification area of the finger pulp.

In Regulation 4 under the Quarantine Ordinance, 1914, it is laid down that every ship having come from or called at an infected place shall be inspected as soon after arrival as possible by the Health Officer. The extreme difficulty of carrying out this part of this Regulation at times at Freetown with the present normal staff is fully set out in the Report for 1913.

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* page 111.

The Medical Officer of Health furnished a report on the presence and degree of prevalence of the *Stegomyia* mosquito in vessels at Freetown other than ocean-going steamers, and the following is abstracted from it :—

(*a*) Steam launches which sail between Port Lokkoh and Freetown were examined, but neither larvæ nor mosquitoes were found.

(*b*) Two steam tugs which are used in the harbour for towing lighters, etc., were found free from larvæ and mosquitoes.

(*c*) Three small schooners which sail between Freetown and Gambia, Great Scarcies, Kambia River, etc., were examined. In one, which had just come from the Gambia, an adult specimen of *Pyrotophorous costalis* was found in the cabin, but none in the other boats.

(*d*) Boats which ply between steamers in the harbour and the shore—

(i) Twelve plying in the bay and in use all contained salt water, and no larvæ were present.

(ii) Fifty lying on the shore, not in actual use, were examined, and of these 13 contained fresh water with mosquito larvæ, which bred out as follows :—*Stegomyia fasciata*, 1; *Stegomyia sugens*, 5; *Culex duttoni*, 4; *Culex pipiens*, 5.

(*e*) Lighters lying in the harbour and used for carrying cargo to and from ships and shore, 14 in all, were examined. Twelve made of wood contained salt water and no larvæ; two were of iron, and contained fresh water and larvæ which bred out *Culex pipiens* and *Stegomyia sugens*. In none of these were larvæ numerous.

(*f*) Native boats sailing between Freetown and Bullom on the other side of the river, distances from Freetown of from five to ten miles. Twenty of these market boats were examined; all contained salt water and no larvæ.

(*g*) Native canoes—

(i) Seven actually in use contained salt water and no larvæ.

(ii) Two lying on the beach contained fresh water with mosquito larvæ (*Stegomyia sugens* in both cases).

(*h*) The S.S. "Fulani," which is a wreck on Carpenter Rock, about a mile from shore, and not in the direction of the prevailing wind, was examined, and six specimens of *Pyrotophorus costalis* were discovered. It is possible that these mosquitoes had been brought from further down the coast.

Quarantine was declared against Dakar on account of plague on the 15th May and withdrawn on the 13th June, and declared again on the 18th July, and not withdrawn again before the end of the year; and against Lagos for yellow fever on the 16th February, and withdrawn on the 9th March.

The boarding and medical inspection of ships at Freetown which had called at Dakar threw a great deal of extra work on the Medical Officer of Health for six months of the year.

## XV.—MALARIA CASES RECORD, FREETOWN.

Records of the names and addresses of malaria cases proved microscopically amongst the intern and extern patients at the Colonial Hospital and at the Clines Dispensary are received at the Medical Officer of Health's office from the Medical Branch. This information is followed up by the Sanitary Branch by inspections of premises at the addresses given, and when such action appears desirable a letter of advice is written to the occupiers, legal action being as far and as long as possible avoided, so as not to deter or prejudice attendance at the hospital; and it has been found that the sanitary advice has been well received, and as a general rule efforts are made to act upon it.

The street numbers of houses are rarely known to inhabitants, and consequently the localisation of patients' houses is often a troublesome matter, and the display of house numbers is very defective. A rough spot map of the city has been kept, but is not reproduced, as the fallacies in interpretation are many and serious. The cases recorded are only those proved microscopically, and which attended one of the Government institutions; better class residential areas are very little "spotted," probably because cases from them receive treatment at home or from druggists.

In 1910, private practitioners in the city were sent microscope slides and circularised to the effect that blood films sent by them marked for identification in any way they liked would be examined at the hospital and reports sent to them gratis, but not a single slide was sent for examination. It is not likely that any greater success would attend a further effort in this direction till the advantages of diagnosis by microscopic examination are more generally appreciated, and till then a malaria spot map of Freetown must be seriously defective and fallacious.

## XVI.—CLINES RAILWAY RESERVATION.

The subject of the water supply to Clines Reservation referred to in the report for 1913 was further considered during the year with regard to the elimination of the unprotected source from domestic use. No conclusion had been communicated to this branch before the end of the year, but it was understood that negotiations were still taking place. The place-name "Clines" is used as a convenient description for the Railway Reservation at Clinetown, which latter is a fairly definite part of the Eastern Ward of the City. The name is particularly useful now to distinguish between the Railway Reservation and the Railway and Harbour Construction works at Clinetown.

The Reservation was frequently inspected in weekly visits and reported on by the Medical Officer in charge.

The available building sites area for second-class officers within the Reservation is practically all allotted for buildings required now, and the needs of the future in this connection urgently call for consideration.

Elsewhere in this report a short description is given of a device invented by the Maintenance Engineer (Mr. R. W. Espeut, A.M.I.C.E.) for limiting the projection of rain water from roofs at Clines.

## XVII.—HILL STATION RESERVATION.

A large amount of the routine scavenging work at Hill Station Reservation consists in removing the rank grass and weeds which grow luxuriantly for about seven months in the year. Sites outside the periphery of the old cleared area have been built on, and these require extra labour. There are still excellent sites available more centrally placed, the occupation of which would reduce the necessity for increased scavenging labour.

A commencement was made in planting suitable grass at a site which is never likely to be selected for building on, but on the cessation of the rains it was useless to continue grass planting. It is intended to continue this work vigorously during future rainy seasons, as it is the only practicable method by which it can be hoped the expense of scavenging can be kept within present limits while the area of the station is extended yearly. It is expected that it will require a good many years' rainy seasons before it will be possible to "grass" even the old central area completely, but each year's work will give immediately economic return in saving labour. The point that the grass will be also ornamental is allowed no consideration as an incentive.

## XVIII.—GROUND GUTTERS TO TAKE ROOF WATER.

In the absence of roof gutters the difficulty of arranging ground gutters to take all the roof water discharged both during gentle rain and heavy tornadoes varies naturally with the height of the eaves and the area and slope of the roof, but it may be said to be in practice nearly always either costly, in consequence of the necessary width of the gutter, or unsatisfactory. The centre line of the gutter is commonly vertically under the edge of the roof, and this allows for some variation in direction of the water fall from vertical outwards, in consequence of volume and velocity, and inwards, as the result of wind deflection. The degree of variation allowed for depends on the width of the gutter. This factor adds considerably to the expense of construction, and has other disadvantages, such as necessitating greater width of crossings, etc. The Maintenance Engineer of the Railway (Mr. R. W. Espeut) has devised a simple arrangement for attachment to roofs, which obviates all necessity for wide ground gutters. It may be briefly described as a light baffle board with open space between it and the eaves. In light rains the water runs down the roof and off at the edge to drop vertically to the gutter below, but in heavy rains the water shooting over the roof edge splashes against the baffle boarding and then falls vertically. In effect it is a device to limit the projection of water from eaves, and in practice at Clines Railway Reservation it has been found to work satisfactorily.

## XIX.—METEOROLOGICAL RETURNS.

The annual rainfall record for 1914 as registered at the Tower Hill Observatory, Freetown, was 102·34 inches. This is the lowest record in 33 years, though rain continued to fall in the latter months of the year. The record at Hill Station (about 800 feet above sea level and about 620 feet higher than Tower Hill Observatory) showed the rainfall there as 133·92 inches. No such marked disparity has been noted before between the records at the two places, which as the crow flies are only about two-and-a-half miles apart. If there be no mistake in the figures the much higher record of the more elevated station tends to somewhat relieve special anxiety as regards the probable sufficiency of the mountain streams of the water gathering grounds for water supply to the city.

As a point of historical interest it is noted that Captain Sabine established a temporary observatory at Fort Thornton. He assisted Major Laing in connection with his chronometer, and other instruments, and his observations and records in the year 1822, and the date of the establishment of the temporary observatory was prior to this.

## XX.—BONTHE AND YORK ISLAND.

The sanitation of Bonthe and York Island was supervised during the year by Drs. Rollason and Clearkin, Medical Officers, and Dr. C. H. Allan, Senior Medical Officer. In the covering letter to his Annual Sanitary Report the Senior Medical Officer gives reasons for believing that returns in former reports relating to the amount of work done, such as the number of loads of refuse burnt or thrown into the sea, etc., were exaggerated, and it is not understood that he gives any guarantee of strict accuracy for the returns which appear over his own signature. The Senior Medical Officer is right in referring to the matter, and no doubt the impossibility of getting even approximately correct returns of this kind is appreciated most by the most careful and conscientious. The subject is of course thoroughly understood in this office, and while it is not intended to decry every effort being made to obtain correct returns of the quantity, for instance, of rubbish removed, the quantity not removed is the essential consideration. The merit of having 10,000 loads of rubbish dealt with in a year will be greater if only 10 remain undealt with than if 100 remain.

The most junior subordinate officers in Sierra Leone require no tutoring in the gentle art of inducing the upward sliding scale of "work done" so that the last year shall always appear statistically the best! The Annual Report is considered to be a suitable place to mention this subject, and the opportunity one to be taken to let it be known that it is quite well recognised in this office that work left undone cannot be gauged merely from work done, and it is the work left undone which matters most.

Brief reference was made in the report for 1913 to a special report by the Senior Sanitary Officer and Sanitary Engineer on the subject of sanitary works required for Bonthe and York Island. It now appears unfortunate that the subject of water supplies was not dealt with quite separately, as the total estimated cost of the major works was a large amount which naturally encouraged extremely cautious approach, involving much delay in commencement, whereas the estimated cost of the proposed water supplies schemes was relatively and from the point of view of the benefit to be expected from them and their urgency, quite insignificant. The boon to the public of any improvement in facility, quantity and quality of water supply in such places as Bonthe and York Island would be inestimable, a veritable godsend. The position as regards Bonthe, in the matter of water supply, is almost as bad as it has been at Bathurst (Gambia), and at York Island it is worse.

It is possible that the need for a fresh water supply for steam power purposes being mentioned in the joint report on sanitary works may have conveyed the impression that there is no need for the supply till steam power is required!

Extracts from the Annual Sanitary Report of the Senior Medical Officer (Dr. C. H. Allan) are appended :—

### BONTHE.

"The sanitary staff has not been further increased since the year 1913, and with proper supervision is sufficient to keep the town clean. The average number of labourers employed was 4 headmen and 34 workmen.

"The principal new improvements comprise a latrine with six compartments, four of the new type of refuse bins, nine concrete bridges, a permanent mortuary chapel in the new (1914) cemetery, a fence of barbed wire on iron standards set in concrete for the large cemetery near the Hospital, and the fitting of the Hospital well with a concrete slab top.

"The public latrines now number six, which is double the number in the year 1910. They are gradually becoming more appreciated by the inhabitants, and the new one in the centre of the town is the most used of the four dry earth latrines. This latrine has been in use since August. The two latrines without buckets over the sea front should have extra compartments next time they require repairing.

"The refuse bins now number 22, and these are at present quite sufficient for the needs of Bonthe, but only 4 are of the new type.

"In the two incinerators, 9,400 hammock loads of rubbish have been burnt, this is a large increase. Both these incinerators being situated on the edges of swamps, the two or three hundred cubic feet of ashes obtained annually will eventually mean a commercial asset to the Government.

"The sanitary gangs have over 12 miles of streets to clean; this has been efficiently done, though the grass in some streets requires cutting four or five times a year.

"Several hundred yards of road have been raised in places where puddles formed during the wet season; over 3,000 loads of sand from the estuary were used as a top dressing.

"Meat inspection has been carried out in all cases of animals slaughtered inside the town area. Eight bullocks were condemned and salted, being infected with *Cysticercus cellulosæ.*

"No surface cement drains were constructed during the year, but the upper part of King Street, very swampy in previous years, has kept dry this year owing to earth drains 100 yards in length being made through the adjacent bush. More of this is being cleaned, and King Street has been further extended westwards.

"Rainfall:—

| | Average 5 years 1909-1913. | | 1914. | |
|---|---|---|---|---|
| January ... ... ... | ·26 | inches | ·12 | inches |
| February ... ... ... | ·30 | ,, | Nil | |
| March ... ... ... ... | 1·59 | ,, | Nil | |
| April ... ... ... ... | 2·90 | ,, | 4·03 | ,, |
| May ... ... ... ... | 8·22 | ,, | 13·40 | ,, |
| June ... ... ... ... | 18·02 | ,, | 19·39 | ,, |
| July ... ... ... ... | 33·98 | ,, | 22·71 | ,, |
| August ... ... ... | 31·24 | ,, | 14·42 | ,, |
| September ... ... ... | 27·58 | ,, | 22·04 | ,, |
| October ... ... ... | 12·02 | ,, | 12·33 | ,, |
| November ... ... ... | 6·66 | ,, | 14·21 | ,, |
| December ... ... ... | 1·47 | ,, | 1·30 | ,, |
| | 144·24 | ,, | 123·95 | ,, |

"Highest, 1909, 163·17 inches; lowest, 1912, 112·51 inches.

"The crude death rate has apparently been much below the average and works out at about 18·4 per thousand. The Bonthe death rate is always exaggerated by persons when they are sick coming here from the rivers where they have been trading.

"For the first time for many years no European has died in the district. There has been no case of blackwater fever; of late years the average has been about three. The Asiatics number about 20 males and 6 females; there was one death amongst them (hyperpyrexial malarial fever, sub-tertian).

### YORK ISLAND.

"Two large and five small concrete bridges were made and no further bridges are required.

"An incinerator of the latest type, the first in York Island, and well capable of burning damp refuse, was built on the edge of a centrally placed swamp.

"A permanent cemetery fence and four of the new type of refuse bins were also erected.

"The complaint at York Island has always been the mosquitoes, far more numerous than at Bonthe, and nearly all *Culex.* A small number may come from the floating craft on the river, but possibly nearly all could be got rid of if it were not for the crab holes. A mixture of coal tar and boiling water put into the holes through a metal funnel has lately proved successful in entirely getting rid of the crabs for a small area and the plan is well worth further experiments."

## XXI.—PENINSULA VILLAGES.

A short note appeared in the report for 1912 on the subject of sanitary inspection in peninsula villages, and the report of one of the Police Sergeants as Sanitary Inspector was quoted, but no reports showing anything like the same work have been received since, and there can be no doubt that the whole arrangement by which the sanitary inspection depends ordinarily on the Police Sergeant in charge of the district is quite unsatisfactory. As the Sergeants receive only a small remuneration for the extra work as Sanitary Inspectors the scheme is a cheap one, and perhaps it would be unfair to grumble because the results are worth no more than the money that is spent to obtain them. But even in Freetown and Bonthe under comparatively close supervision it has been almost impossible to get really sound, consistent inspection done by whole time Sanitary Inspectors and until better recruits can be obtained, trained and tested in Freetown, it will be impossible to usefully extend the field of more thorough operations to the villages. Meanwhile it is questionable whether the present arrangement is worth while.

## XXII.—RAILWAY CONSTRUCTION.

Sites for the railway station, West African Frontier Force barracks, and District Commissioner's sub-district headquarters were selected at or near Makene.

The preliminary consideration and inspections with re-considerations and re-inspections of the latter sites involved a considerable amount of time and labour. The area is within the district in which the generally bad water supplies to native towns, in the dry seasons, was first recognised as calling for special assistance from the Government by the adoption of the scheme outlined in the Annual Report for 1912, and referred to in that for 1913.

The next section of railway construction runs from Makene to Baga. The Sanitary Branch had not been informed of the localities of the proposed station sites up to the end of the year.

## XXIII.—SANITATION IN THE PROTECTORATE.

Sanitation in the Protectorate, so far as native chiefs, people and towns are concerned, still relies for its advancement solely on the Secretariat Instruction to District Commissioners, No. 5 of 1909, which replaced a similar one issued in 1905, and such advance as can reasonably be expected under such circumstances, if not more, has been made.

Dr. J. Y. Wood, Medical Officer, and Dr. J. Pearson, Medical Officer, performed specially good work on " patrols."

Though it is not intended that the Protectorate Towns Sanitation Scheme should cease or the principles underlying it be withdrawn from use when the proposed Protectorate Public Health Bill is passed, the matter of sanitation in the Protectorate must enter a new phase with the passing of the Bill. So far as native chiefs and people are concerned it is anticipated that the change will be scarcely perceptible; the greater degree of method and system resulting will be less apparent to them than it will be to those on whom the work of introducing and controlling it will fall. If careful, accurate records of the names of the towns coming from time to time under the Ordinance and of the particular rules which have been made to apply to each of those individual towns are not kept and kept up to date as other rules are applied, and all communicated to this Branch, great confusion and very little benefit will result. Indeed the measure of benefit that is likely to result will depend chiefly on two factors : (1) the accuracy and communication of records, and (2) the thoroughness and frequency of sanitary inspection. The second factor is dependent at present, in most places in the Protectorate, on the " spare time " the Medical Officer has available, combined of course with any special interest he may have in the subject or aptitude he may possess for the work. The remarks on this subject at the end of Head XXVII. in the Sanitary Report for 1913 refer to this subject more fully. It is for others to decide whether the clerical staffs in District Commissioners' Offices will not require to be strengthened to maintain the first factor, but it is not unlikely that the clerical staff in the Sanitary Office will require to be strengthened in time as larger numbers of Rules are made to apply to larger numbers of towns.

## XXIV.—WATER SUPPLIES TO TOWNS IN THE PROTECTORATE.

As was noted in the report for 1913, the details of the work of the scheme for providing water supplies to towns in the Protectorate has passed from this Department to the care of the Public Works Department, and consequently, though it is not suggested that this Branch should withhold criticism on the subject, any more than fail to give advice and assistance when asked, the report by the Sanitary Engineer on the working of the scheme during 1914 is appended without comment.

The best apparatus to provide for withdrawal of water from wells situated far from skilled supervision, is a question which requires careful consideration, though of course the first and more important matter is to provide the wells. If one uniform pattern can be selected suitable for all so much the better, as a travelling mechanic with spare parts would then be expected not only to detect faults but repair them as a rule with the minimum delay. The water elevator erected over a well at Bonthe was most satisfactory. The fact that it was put out of action by a part being broken, and the elevator at the end of twelve months was still out of action, owing to the broken part not being replaced, is no argument against the usefulness of that pattern of elevator. Many of the same type at Bathurst, Gambia, have been erected over wells there and are satisfactory. No matter what type of apparatus be selected so long as it is a machine it will require repair and renewal. This Branch has therefore so far not pushed this matter in connection with Protectorate native towns' wells, as it is convinced that such action would be premature till arrangements are completed and ready for operation by which mechanical repairs and renewals may be done expeditiously, and an ample supply of spare parts kept in store in the Colony. If a well is really useful and appreciated by the public, and owing to failure of mechanism water cannot be obtained from the well by its means, in all probability other damage will be done to enable water to be withdrawn on the bucket and rope principle. If this common-sense prediction requires support the experience at Bathurst affords it, and it holds whether the apparatus be a pump or an elevator.

## XXV.—SMALL-POX.

There was no small-pox epidemic during the year. Many years ago reference used to be made to the " usual epidemic of small-pox." The next epidemic will not, however, be received with equanimity by the inhabitants.

The diagnosis of small-pox in West Africa presents a difficulty which is not experienced in England. As reference has not been made to this matter in any preceding Annual Sanitary Report for Sierra Leone it is thought that a note on the subject may not be out of place here. Clinical descriptions have appeared elsewhere of a condition described under the rather makeshift name " acute craw-craw " (Annual Medical Report for 1909 and Annals of Tropical Medicine Volume III., No. 5, March, 1910). Further experience enables little to be added to those descriptions, but has confirmed the view that it is important from the public health point of view that the condition should be more widely known and recognised. Successful vaccination up to the end of the second day of the rash is possible in some cases of small-pox, but after that time it is not known that vaccination has been successful within a period measured by years. In " acute craw-craw " cases, however, which have not been previously vaccinated, vaccination " takes " normally at any time. This test of course will not distinguish between " acute craw-craw " and varicella, but the differential diagnosis between these two is of minor importance. It is suggested that all cases diagnosed as sporadic discrete small-pox, or suspected of being such, should be tested by vaccination. There is ample ground for believing that confusion as between "acute craw-craw" and small-pox has occurred not infrequently in West Africa. It is not judged permissible in this report to cite instances, relate experiences or assign reasons for the above statement. Once on their guard, public health officers are not likely to confound the two eruptions.

## XXVI.—ENTOMOLOGY.

Natural breeding places in Freetown of mosquitoes and classification (from Dr. R. W. Orpen's Quarterly Report, March, 1914; identification by larvæ by Dr. W. B. Johnson, Yellow Fever Commission):—

1. Outfall Moore's Brook, 16.2.14. *Cyclops; Culex decens.*
2. Pool west side Sander's Brook, by Dundas Street, 16.2.14. *Culex decens; Cyclops;* Ephemerid larvæ.
3. Same as 2 but different pool. *Stegomyia calopus.*
4. Same stream as 2, 16.2.14. *Anopheles* (*Pyretophorus*) *costalis; Cyclops;* Chironomid larvæ.
5. Pool east side Peter's Brook, by Walpole Street, 16.2.14. *Culex decens; Anopheles* (*Pyretophorus*) *costalis; Cyclops;* Ephemerid larvæ.
6. Pool east side Sander's Brook, by Cape Palmas Street, 16.2.14. *Culex decens; Anopheles costalis; Cyclops;* Ephemerid and Chironomid larvæ.
7. Pool east side Sander's Brook, by Point Street, 20.2.14. *Culex duttoni; Culex tigripes; Cyclops.*
8. Pool east side Agugumara Brook, 23.2.14. *Culex duttoni.*
9. Pool east side Agugumara Brook, 24.2.14. *Culex* (did not hatch); *Cyclops.*
10. Pool in Nicol Brook. *Anopheles* (*Pyretophorus*) *costalis.*
11. " " " " "
12. Pool south side Nicol Brook, at Mountain Cut, 10.3.14. *Culex decens; Anopheles costalis; Cyclops;* Ephemerid larvæ.
13. Pool east side Nicol Brook, by Mill Street, 12.3.14. *Anopheles costalis;* Chironomid and Ephemerid larvæ.

Artificial breeding places:—

1. Barrel in Victoria Park, 16.2.14. *Culex decens; Stegomyia calopus.*
2. Tub in compound in Fourah Bay Road, 16.2.14. *Culiciomyia nebulosa.*
3. Tin pan in house in Fifth Street, 16.2.14. *Culiciomyia nebulosa.*
4. Native pot in Hope Street, 16.2.14. *Stegomyia calopus.*
5. Old tin pan in compound in Wilberforce Street, 24.2.14. *Stegomyia calopus.*
6. Tub in Alligator Brook, 26.2.14. *Culex decens; Anopheles costalis; Cyclops.*

R. H. KENNAN,
*Senior Sanitary Officer.*

*20th April,* 1915.

## METEOROLOGICAL OBSERVATIONS IN FREETOWN—1914.

| Month. | Air Temperature in Shade. |  | Total Rainfall for the Month in Inches. | Atmospheric Pressure. |  | Remarks. |
|---|---|---|---|---|---|---|
|  | Maximum. | Minimum. |  | 9 a.m. | 3 p.m. |  |
| January ... | 95·0 | 64·2 | Nil. | 30·070 | 29·841 | Highest Temperature in Sun—138·0, on the 3rd [January. |
| Means ... | 89·8 | 69·6 |  | 30·013 | 29·941 |  |
| February ... | 96·0 | 67·0 | Nil. | 30·066 | 29·889 | „ „ 140·0, on the 1st Feburary. |
| Means ... | 91·8 | 70·2 |  | 30·009 | 29·931 |  |
| March ... | 94·8 | 67·8 | Nil. | 30·052 | 29·870 | „ „ 148·0, „ 11th March. |
| Means ... | 91·3 | 70·2 |  | 30·006 | 29·916 |  |
| April ... ... | 96·2 | 67·4 | 0·02 | 30·069 | 29·844 | „ „ 152·0, „ 22nd April. |
| Means ... | 91·3 | 70·4 |  | 29·997 | 29·909 |  |
| May ... ... | 95·0 | 61·2 | 7·02 | 30·097 | 29·911 | „ „ 152·0, „ 13th May. |
| Means ... | 91·2 | 69·0 |  | 30·027 | 29·943 |  |
| June ... ... | 91·6 | 61·0 | 13·58 | 30·193 | 29·909 | „ „ 147·0, „ 4th June. |
| Means ... | 88·3 | 65·6 |  | 30·049 | 29·979 |  |
| July ... ... | 93·0 | 62·0 | 27·02 | 30·139 | 28·971 | „ „ 147·0, „ 3rd July. |
| Means ... | 84·2 | 66·0 |  | 30·055 | 29·987 |  |
| August ... | 85·2 | 63·0 | 16·79 | 30·106 | 29·972 | „ „ 149·0, „ 18th August. |
| Means ... | 82·6 | 70·1 |  | 30·075 | 30·025 |  |
| September ... | 89·0 | 70·9 | 18·45 | 30·107 | 29·898 | „ „ 157·9, „ 22nd September. |
| Means ... | 84·3 | 73·2 |  | 30·043 | 29·969 |  |
| October ... | 91·0 | 69·8 | 10·09 | 30·111 | 29·880 | „ „ 147·9, „ 17th October. |
| Means ... | 88·2 | 73·2 |  | 30·008 | 29·928 |  |
| November ... | 90·6 | 71·0 | 7·93 | 30·074 | 29·829 | „ „ 148·2, „ 10th November. |
| Means ... | 88·3 | 74·5 |  | 29·984 | 29·909 |  |
| December ... | 91·8 | 69·0 | 1·44 | 30·077 | 29·861 | „ „ 137·8, „ 12th December. |
| Means ... | 89·2 | 74·6 |  | 29·992 | 29·908 |  |

## METEOROLOGICAL OBSERVATIONS AT OUT-STATIONS—1914.

| Station. | Temperature. |  |  |  |  |  | Relative Humidity. | Total Rainfall. | Number of Days that Rain fell. | Greatest amount on one Day. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Mean Maximum. | Mean Minimum. | Average Mean. | Mean Diurnal Variation. | Highest Recorded. | Lowest Recorded. |  | INS. |  | INS. |  |
| Batkanu ... | 90·77 | 70·00 | 80·38 | 20·59 | 91·16 | 73·35 | 83·97 | 88·76 | 152 | 4·35 |  |
| Bo ... ... | 90·11 | 68·3 | 79·20 | 22·46 | 89·8 | 73·6 | 88·7 | 103·101 | 118 | 5·03 |  |
| Bonthe ... | 84·37 | 65·83 | 75·10 | 11·95 | 81·97 | 73·3 | 79·83 | 123·95 | 177 | 5·35 |  |
| Daru ... ... | 91·39 | 68·86 | 80·12 | 22·29 | 92·0 | 69·0 | 76·57 | 85·38 | 139 | 3·36 |  |
| Kaballa ... | 88·9 | 66·2 | 77·5 | 21·10 | 93·0 | 67·0 | 77·2 | 73·87 | 108 | 4·20 |  |
| Kissy ... | 86·2 | 64·8 | 75·5 | 15·9 | 85·0 | 72·0 | 74·68 | 99·75 | 155 | 5·98 |  |
| Moyamba ... | 90·61 | 57·39 | 74·0 | 22·01 | 86·92 | 72·03 | 76·68 | 77·19 | 158 | 3·86 |  |

## No. 1.

## SUMMARY OF ROUTINE SANITARY WORK DONE DURING THE YEAR IN THE TOWN.

1. Name of Town: FREETOWN.

| — | Approximate area. | Number of proclaimed open spaces. |
|---|---|---|
| 1914 ... ... ... ... | 2¾ square miles. | 2 Public Recreation Grounds. |

2. Population.

| — | No. of Natives. | | No. of Europeans. | | Total. |
|---|---|---|---|---|---|
| | Males. | Females. | Males. | Females. | |
| 1914 ... ... ... | 33,363 (1911.) | | — | — | 34,090 { Census 1911.<br>Syrians 212 (1913). |

3. Housing.

| — | Number occupied by Europeans. | Number occupied by Natives. |
|---|---|---|
| Number of Houses :—<br>1914 ... ... ... | 84* | — |

* Excludes Hill Station, Cline Town Reservation and Barracks.

Number of Huts :—
1914 ... ...

4. Mosquito Protection of Houses.

| — | | | 1914. |
|---|---|---|---|
| Number of European houses wholly mosquito-protected ... ... | — | — | — |
| Number of European houses with mosquito room ... ... | — | — | — |
| Number rendered during the year wholly mosquito-protected ... | — | — | — |
| Number rendered during the year partially mosquito-protected ... | — | — | — |

5. Erection of New Buildings during the Year.

| — | | | 1914. |
|---|---|---|---|
| Number of public buildings erected with sanction as to site, construction, and relation to other buildings. | — | — | Vide Addendum. |
| Number of houses erected with sanction as to site, construction, and relation to other buildings. | — | — | |
| Number of huts erected with sanction as to site, construction, and relation to other buildings. | — | — | |
| Number of houses built without sanction ... ... ... | — | — | |
| Number of huts built without sanction ... ... ... | — | — | |

Action taken :—

| — | Number of Prosecutions. | | Number demolished. | |
|---|---|---|---|---|
| | Huts. | Houses. | Huts. | Houses. |
| 1914 ... ... | — | — | — | — |

## 6. Markets.

| — | Total Number. | Number paved and drained. | Number unpaved. |
|---|---|---|---|
| 1914 ... ... ... | 6 | 4 | 2 |

## 7. Slaughter-houses.

| — | Total number. | Total paved and drained. | Number unpaved. |
|---|---|---|---|
| 1914 ... ... ... | 2* | 2 | — |

* 1 Public and 1 Imperial Military.

## 8. Latrines.

| — | For Males. | | For Females. | |
|---|---|---|---|---|
| | Number. | Number of seats. | Number. | Number of seats. |
| Number of Public Latrines :— 1914 ... ... ... ... ... | 9 | 23 | 9 | 21 |
| Number of New Public Latrines erected during year:... | — | — | — | — |
| Number of Public Latrines repaired during year : ... | — | — | — | — |
| Number of Public Latrines demolished during year :... | — | — | — | — |

| — | | | 1914. |
|---|---|---|---|
| Number of Private Latrines ... ... ... ... ... ... ... | — | — | 132 |
| Average number of pails of nightsoil removed daily ... ... ... ... | — | — | 212 |
| Average number of soiled pails removed and clean pails substituted ... | — | — | — |
| Number of nightsoil men employed to clean latrines and remove excreta ... | — | — | — |
| Number of cesspools ... ... ... ... ... ... ... ... | — | — | 3,182 |
| Number of cesspools cleansed ... ... ... ... ... ... ... | — | — | 1,348 |
| Number of new cesspools constructed during the year ... ... ... | — | — | 95 |
| Number of old cesspools abolished ... ... ... ... ... ... | — | — | 732 |
| Number of cesspools oiled regularly by Department ... ... ... ... | — | — | 705 |

## 9. Removal of refuse.

| — | | | 1914. |
|---|---|---|---|
| Number of dustbins ... ... ... ... ... ... | — | — | 74 |
| Number of carts (if employed) at work, etc. ... ... ... | — | — | 3 { Working intermittently. |
| Amount of refuse removed daily from streets ... ... | — | — | — |
| Number of carts (if employed) at work daily, etc. ... ... | — | — | — |
| Amount of refuse removed daily, etc. ... ... ... ... | — | — | — |
| Number of men employed for moving refuse ... ... ... | — | — | 175 average. |

## 10. Mode of disposal of excreta, refuse and offal.

| — | Daily average number of pails of excreta. | | | Daily average number of cartloads of refuse. | | | Daily average number of cartloads of Slaughter-House and Market Offal. | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| Burial or trenched ... ... ... | | | | | | | | | |
| Burnt ... ... ... ... ... | | | | | | | | | |
| Thrown into Sea ... ... ... | | | | | | | | | |
| *Otherwise dealt with ... ... | | | | | | | | | |

* State mode of disposal.

## 11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

| | | |
|---|---|---|
| | | |

## 12. Water Supply.

| Nature of Water Supply. | | | 1914. |
|---|---|---|---|
| Pipe-borne water :— | | | |
| Source (river, lake or spring) ... ... ... ... ... ... | — | — | Streams. |
| Number of linear yards ... ... ... ... ... ... | — | — | — |
| Number of stand pipes along roads ... ... ... | — | — | 190 |
| Number of stand pipes in compounds and houses ... ... | — | — | 207 private services with 653 taps. |
| Wells :— | | | |
| Public :— | | | |
| Number ... ... ... ... ... ... ... | — | — | — |
| Number with pumps protected against surface water and mosquito-protected ... ... ... ... ... | — | — | 45 Government services with over 200 taps. |
| Private :— | | | |
| Number ... ... ... ... ... ... ... | — | — | — |
| Number protected against surface water and mosquito-protected ... ... ... ... ... ... | — | — | — |

| Nature of Water Supply. | | | 1914. |
|---|---|---|---|
| Tanks :— | | | |
| Public :— | | | |
| Number underground ... ... ... ... ... | — | — | — |
| Number mosquito-protected and served by pumps ... | — | — | — |
| Number above ground ... ... ... ... ... | — | — | — |
| Number mosquito-protected ... ... ... ... | — | — | — |
| Number of 400 gallons capacity or less ... ... ... | — | — | — |
| Number above 400 gallons ... ... ... ... | — | — | — |
| Private :— | | | |
| Number underground ... ... ... ... ... | — | — | — |
| Number mosquito-protected ... ... ... ... ... | — | — | — |
| Number above ground ... ... ... ... ... | — | — | 43 |
| Number mosquito-protected ... ... ... ... ... | — | — | 11 |
| Number of 400 gallons capacity or less ... ... ... | — | — | — |
| Number above 400 gallons ... ... ... ... ... | — | — | — |
| Nature of tanks :— | | | |
| Wood ... ... ... ... ... ... ... ... | — | — | 19 |
| Iron ... ... ... ... ... ... ... ... | — | — | 21 |
| Concrete ... ... ... ... ... ... ... | — | — | 3 |
| Barrels :— | | | |
| Number ... ... ... ... ... ... ... | — | — | 1,025 |
| Number mosquito-protected ... ... ... ... ... | — | — | 12 |

## 13. Drainage.

| Nature of Drainage. | Public. | Private. |
|---|---|---|
| Masonry Drains : | | |
| Lineal yards of masonry drains : ... ... ... | Vide Addendum. | |
| Lineal yards reconstructed during the year : ... | | |
| Lineal yards repaired during the year : ... ... | | |
| Lineal yards of new drains constructed during the year : ... ... ... ... ... | | |
| Earth drains or ditches :— | | |
| Number of linear yards of ditches cleaned : ... | | |
| Number of linear yards of ditches dug and graded : ... ... ... ... ... ... | | |
| Average frequency of clearing ditches of grass :... | | |

## 14. Clearance of undergrowth, long grass and jungle.

| —— | | | 1914. |
|---|---|---|---|
| Number of square yards of weeds, grass, and vegetation cut and removed ... ... ... ... ... ... ... ... | | | |
| Average frequency of clearance of rank vegetation on same area | | | |

## 15. Excavations and low-lying land.

| — | | | 1914. |
|---|---|---|---|
| Number of pools and excavations ... ... ... ... ... | — | — | |
| Number of excavations filled up ... ... ... ... ... | — | — | Vide Addendum. |
| Amount of low-lying and marsh land raised and drained ... ... | — | — | |
| Number of pools, marshes, streams, etc., fish-stocked ... ... | — | — | |
| Number of cubic yards of material used for filling up pools and excavations ... ... ... ... ... ... ... | — | — | |
| Number of persons fined for making new excavations ... ... | — | — | |
| Average number of men daily employed in filling up pools, etc. ... | — | — | |

## 16. Oiling.

| — | | | 1914. |
|---|---|---|---|
| Number of times drains oiled ... ... ... ... ... | — | — | 28,341 |
| Number of times pools and excavations oiled ... ... | | | |
| Number of wells oiled ... ... ... ... ... ... ... | — | — | 92 |
| Average number of men daily employed for oiling drains, pools, water-tanks or barrels ... ... ... ... ... ... | — | — | 7 |

## 17. Inspections and Prosecutions.

| — | | | 1914. |
|---|---|---|---|
| Number of inspectors employed ... ... ... ... ... | — | — | 19 |
| Number of house inspections ... ... ... ... ... ... | — | — | 87,259 |
| Number of houses where larvæ were found ... ... ... ... | — | — | 847 |
| Number of notices served to remove conditions causing the breeding of larvæ ... ... ... ... ... ... ... ... | — | — | 35 |
| Number of persons fined for having mosquito larvæ on premises ... | — | — | 595 |
| Number of notices served to remove insanitary conditions on premises | — | — | 4,915 |
| Number of persons fined for not removing insanitary conditions after notice ... ... ... ... ... ... ... ... | — | — | 372 |
| Number of soda and aerated water factories inspected ... ... | — | — | 1 |

## ADDENDUM.

Information *re* 5, 13, 14, 15 formerly supplied by P.W.D. now included in P.W.D. Annual Report.

Information *re* 12, supplied by Superintendent, Freetown Corporation Water Works.

## No. 2.

## SUMMARY OF ROUTINE SANITARY WORK DONE DURING THE YEAR IN THE TOWN.

1. Name of Town: BONTHE.

| — | Approximate area. | Number of proclaimed open spaces. |
|---|---|---|
| 1914 ... ... ... | 250 acres. | — |

### 2. Population.

| — | No. of Natives. | | No. of Europeans. | | Total. |
|---|---|---|---|---|---|
| | Males. | Females. | Males. | Females. | |
| 1914 ... ... | 2,000 | 2,600 | 32 | 9 | 4,669 |
| | Syrians. | | Indians. | | |
| | 20 | 6 | 2 | 0 | |

### York Island.

| European. | | Native. | |
|---|---|---|---|
| Male ... ... ... ... | 8 | Males ... ... ... | 350 |
| Female ... ... ... ... | 0 | Females ... ... | 400 |
| Total ... ... ... | 758 | | |

### 3. Housing.

| — | Number occupied by Europeans. | Number occupied by Natives. |
|---|---|---|
| Number of Houses :—<br>1914 ... ... ... ... | 13 | 1,030 |

Number of Huts :— Classed as houses.

### 4. Mosquito Protection of Houses.

| — | | 1913. | 1914. |
|---|---|---|---|
| Number of European houses wholly mosquito-protected ... ... | — | — | — |
| Number of European houses with mosquito room ... ... | — | 3 | 4 |
| Number rendered during the year wholly mosquito-protected ... | — | — | — |
| Number rendered during the year partially mosquito-protected ... | — | — | 1 |

## 5. Erection of New Buildings during the Year.

| — | | | 1914. |
|---|---|---|---|
| Number of public buildings erected with sanction as to site, construction, and relation to other buildings ... ... ... ... ... ... | — | — | — |
| Number of houses erected with sanction as to site, construction, and relation to other buildings ... ... ... ... ... ... ... ... | — | — | 21 |
| Number of huts erected with sanction as to site, construction, and relation to other buildings ... ... ... ... ... ... ... ... | — | — | — |
| Number of houses built without sanction ... ... ... ... ... | — | — | — |
| Number of huts built without sanction ... ... ... ... ... | — | — | — |

Action taken :—

| — | Number of Prosecutions. | | Number Demolished. | |
|---|---|---|---|---|
| | Huts. | Houses. | Huts. | Houses. |
| 1914 ... ... | — | — | — | 17 |

## 6. Markets.

| — | Total number. | Number paved and drained. | Number unpaved. |
|---|---|---|---|
| 1914 ... ... ... ... | 2 | 2 | — |

## 7. Slaughter-houses.

| — | Total number. | Total paved and drained. | Number unpaved. |
|---|---|---|---|
| 1914 ... ... ... ... | 1 | 1 | — |

## 8. Latrines.

| — | For Males. | | For Females. | |
|---|---|---|---|---|
| | Number. | Number of Seats. | Number. | Number of Seats. |
| Number of Public Latrines :— | | | | |
| 1913 ... ... ... ... ... | 5 | 18 | — | — |
| 1914 ... ... ... ... ... | 6 | 24 | — | — |
| Number of New Public Latrines erected during year :— | | | | |
| 1913 ... ... ... ... ... | — | — | — | — |
| 1914 ... ... ... ... ... | 1 | 6 | — | — |
| Number of Public Latrines repaired during year :— | | | | |
| 1914 ... ... ... ... ... | 2 | 4 | — | — |
| Number of Public Latrines demolished during year :— | | | | |
| 1914 ... ... ... ... ... | — | — | — | — |

| — | | | 1914. |
|---|---|---|---|
| Number of Private Latrines ... ... ... ... ... | — | — | 14 |
| Average number of pails of nightsoil removed daily ... ... ... | — | — | 14 |
| Average number of soiled pails removed and clean pail substituted ... | — | — | — |
| Number of nightsoil men employed to clean latrines and remove excreta | — | — | 3 |
| Number of cesspools ... ... ... ... ... ... ... | — | — | 1* |
| Number of cesspools cleansed ... ... ... ... ... | — | — | — |
| Number of new cesspools constructed during the year ... ... | — | — | — |
| Number of old cesspools abolished ... ... ... ... | — | — | 1 |
| Number of cesspools oiled regularly by Department ... ... ... | — | — | — |

---

* Summoned and convicted (cesspools prohibited).

9. Removal of refuse.

| —— | | | 1914. |
|---|---|---|---|
| Number of dustbins ... ... ... ... ... ... ... | — | — | 22 |
| Number of carts (if employed) at work, etc. ... ... ... | — | — | — |
| Amount of hammocks of refuse removed daily from streets ... ... | — | — | 29 |
| Number of hammocks (if employed) at work daily, etc. ... ... | — | — | 3 |
| Amount of refuse removed daily, etc.... ... ... ... ... | — | — | — |
| Number of men employed for removing refuse ... ... ... | — | — | 16 |

10. Mode of disposal of excreta, refuse and offal.

| —— | Daily average number of pails of excreta. | | | Daily average number of cartloads of refuse. | | | Daily average number of cartloads of Slaughter House and Market Offal. | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1914. | | | | | | |
| Burial or trenched ... ... ... | — | — | 6 | — | — | — | — | — | — |
| Burnt ... ... ... ... ... | — | — | — | — | — | — | — | — | — |
| Thrown into Sea ... ... ... | — | — | 30 | — | — | — | — | — | — |
| *Otherwise dealt with ... ... | — | — | — | — | — | — | — | — | — |

* State mode of disposal.

11. Average daily number of hammock loads of tin cans, bottles, broken crockery, and other incombustible material removed from houses, huts and compounds.

| | | 1914. |
|---|---|---|
| — | — | 6 |

12. Water Supply.

| Nature of Water Supply. | | | 1914. |
|---|---|---|---|
| Pipe-borne water :— | | | |
| Source (river, lake or spring) :— | | | |
| Number of linear yards ... ... ... ... ... | — | — | — |
| Number of stand pipes along roads ... ... ... | — | — | — |
| Number of stand pipes in compounds and houses ... | — | — | — |
| Wells :— | | | |
| Public :— | | | |
| Number ... ... ... ... ... ... ... | — | — | 2 |
| Number with pumps protected against surface water and mosquito-protected ... ... ... ... ... | — | — | 2 |
| Private :— | | | |
| Number ... ... ... ... ... ... ... | — | — | 140 |
| Number protected against surface water and mosquito-protected ... ... ... ... ... ... | — | — | 140 |
| Tanks :— | | | |
| Public :— | | | |
| Number underground ... ... ... ... ... | — | — | — |
| Number mosquito-protected and served by pumps ... | — | — | — |
| Number above ground ... ... ... ... ... | — | — | 4 |
| Number mosquito-protected ... ... ... ... | — | — | 4 |
| Number of 400 gallons capacity or less ... ... ... | — | — | — |
| Number above 400 gallons ... ... ... ... ... | — | — | 4 |

| Nature of Water Supply. | | | 1914. |
|---|---|---|---|
| Tanks :— | | | |
| Private :— | | | |
| Number underground ... ... ... ... ... | — | — | 20 |
| Number mosquito-protected ... ... ... ... | — | — | 20 |
| Number above ground ... ... ... ... ... | — | — | — |
| Number mosquito-protected ... ... ... ... | — | — | — |
| Number of 400 gallons capacity or less ... ... ... | — | — | 12 |
| Number above 400 gallons ... ... ... ... ... | — | — | 8 |
| Nature of tanks :— | | | |
| Wood ... ... ... ... ... ... ... ... | — | — | — |
| Iron ... ... ... ... ... ... ... ... | — | — | 20 |
| Concrete ... ... ... ... ... ... ... | — | — | — |
| Barrels :— | | | |
| Number ... ... ... ... ... ... ... | — | — | 18 |
| Number mosquito-protected ... ... ... ... | — | — | 18 |

## 13. Drainage.

| Nature of Drainage. | Public. | Private. |
|---|---|---|
| Masonry Drains :— | | |
| Lineal yards of masonry drains :— | | |
| 1913 ... ... ... ... ... | 400 | 100 |
| 1914 ... ... ... ... ... | 400 | 150 |
| Lineal yards reconstructed during the year :— | | |
| 1914 ... ... ... ... ... | — | 50 |
| Lineal yards repaired during the year :— | | |
| 1914 ... ... ... ... ... | — | — |
| Lineal yards of new drains constructed during the year :— | | |
| 1914 ... ... ... ... ... | — | — |
| Earth drains or ditches :— | | |
| Number of linear yards of ditches cleaned :— | | |
| 1914 ... ... ... ... ... | 2,000 yards | — |
| Number of linear yards of ditches dug and graded :— | | |
| 1914 ... ... ... ... ... | 200 | — |
| Average frequency of clearing ditches of grass :— | | |
| 1914 ... ... ... ... ... | Twice a year | — |

## 14. Clearance of undergrowth, long grass and jungle.

| —— | | | 1914. |
|---|---|---|---|
| Number of square yards of weeds, grass, and vegetation cut and removed ... ... ... ... ... ... ... ... | — | — | 10,000 |
| Average frequency of clearance of rank vegetation on same area ... | — | — | Twice a year |

## 15. Excavations and low-lying land.

| — | | | 1914. |
|---|---|---|---|
| Number of pools and excavations ... ... ... ... ... | — | — | — |
| Number of excavations filled up ... ... ... ... ... | — | — | 5 |
| Amount of low-lying and marsh land raised and drained ... ... | — | — | ¼ acre. |
| Number of pools, marshes, streams, etc., fish-stocked ... ... | — | — | — |
| Number of cubic yards of material used for filling up pools and excavations ... ... ... ... ... ... ... | — | — | 100 |
| Number of persons fined for making new excavations ... ... | — | — | — |
| Average number of men daily employed in filling up pools, etc. ... | — | — | 2 for 6 months. |

## 16. Oiling.

| — | | | 1914. |
|---|---|---|---|
| Number of drains oiled ... ... ... ... ... ... | — | — | — |
| Number of pools and excavations oiled ... ... ... ... | — | — | — |
| Number of tanks and barrels oiled ... ... ... ... ... | — | — | — |
| Average number of men daily employed for oiling drains, pools, water tanks or barrels ... ... ... ... ... ... | — | — | — |

## 17. Inspections and Prosecutions.

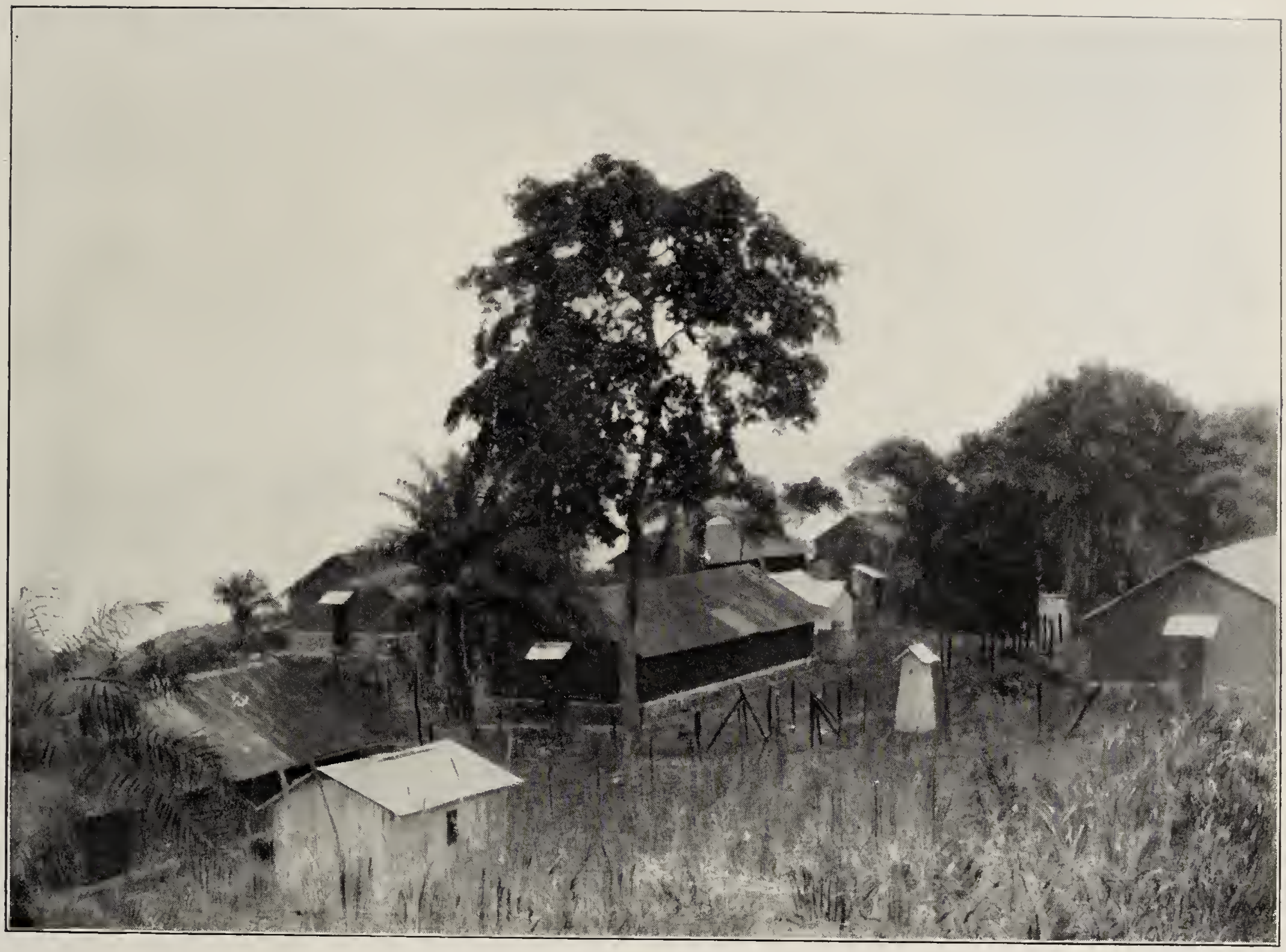
| — | | | 1914. |
|---|---|---|---|
| Number of inspectors employed ... ... ... ... ... ... | — | — | 2 |
| Number of houses inspected ... ... ... ... ... ... ... | — | — | 100 |
| Number of houses where larvæ were found (including compounds) | — | — | 45 |
| Number of notices served to remove conditions causing the breeding of larvæ ... ... ... ... ... ... ... ... | — | — | 2 |
| Number of persons fined for having mosquito larvæ on premises ... | — | — | 55 |
| Number of notices served to remove insanitary conditions on premises | — | — | 10 |
| Number of persons fined for not removing insanitary conditions after notice... ... ... ... ... ... ... ... | — | — | 168 |
| Number of soda and aerated water factories inspected ... ... | — | — | None. |

YORK ISLAND—

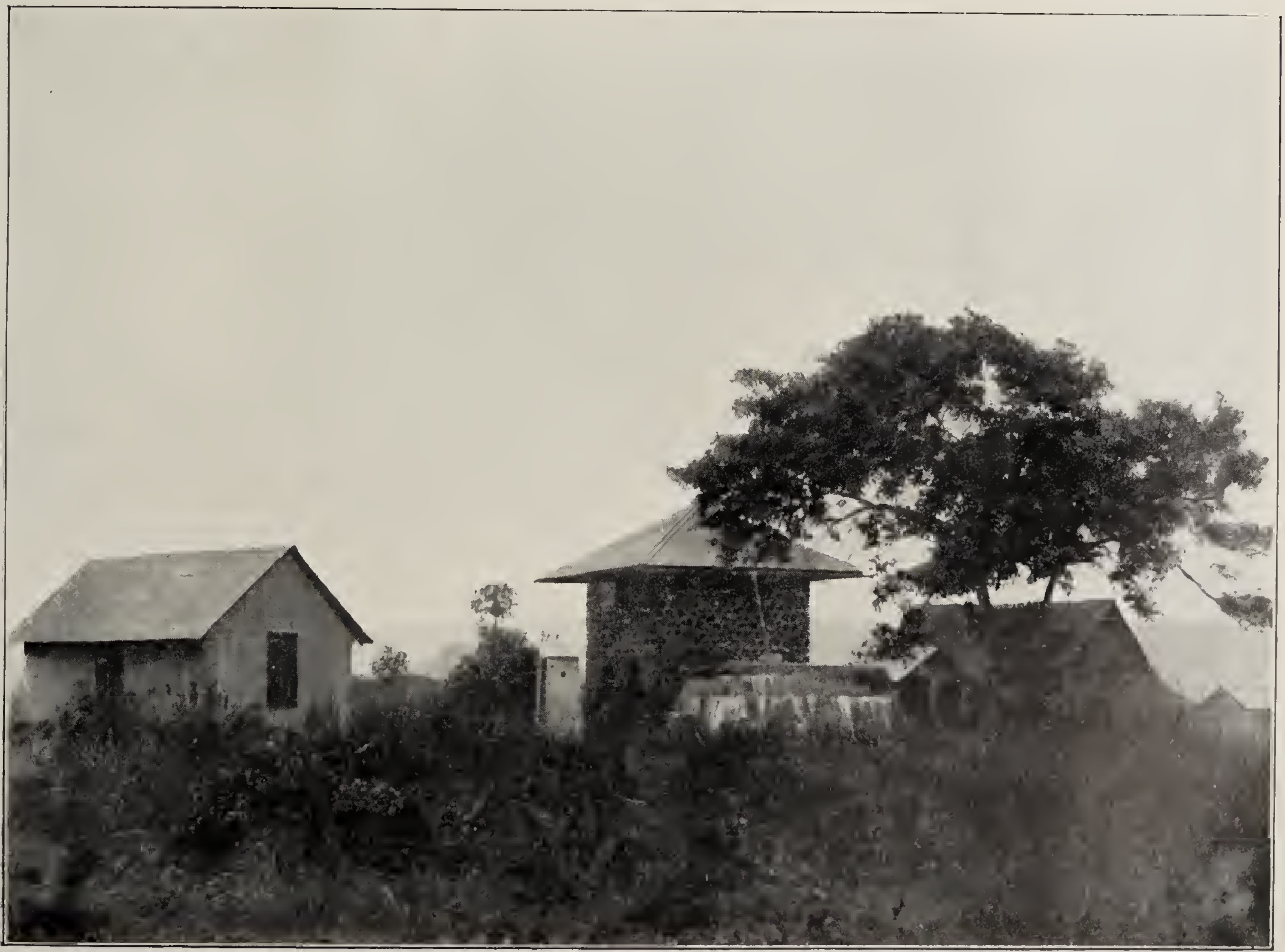
| | |
|---|---|
| Inspector ... ... ... ... ... | 1 |
| Labourers ... ... ... ... ... | 6 |
| Public wells... ... ... ... ... | — |
| „ tank ... ... ... ... ... | 1 |
| „ Latrine ... ... ... ... | 1 |

Waterlow & Sons Limited, Printers, London Wall, London.

# CAPE SANITARY STATION.

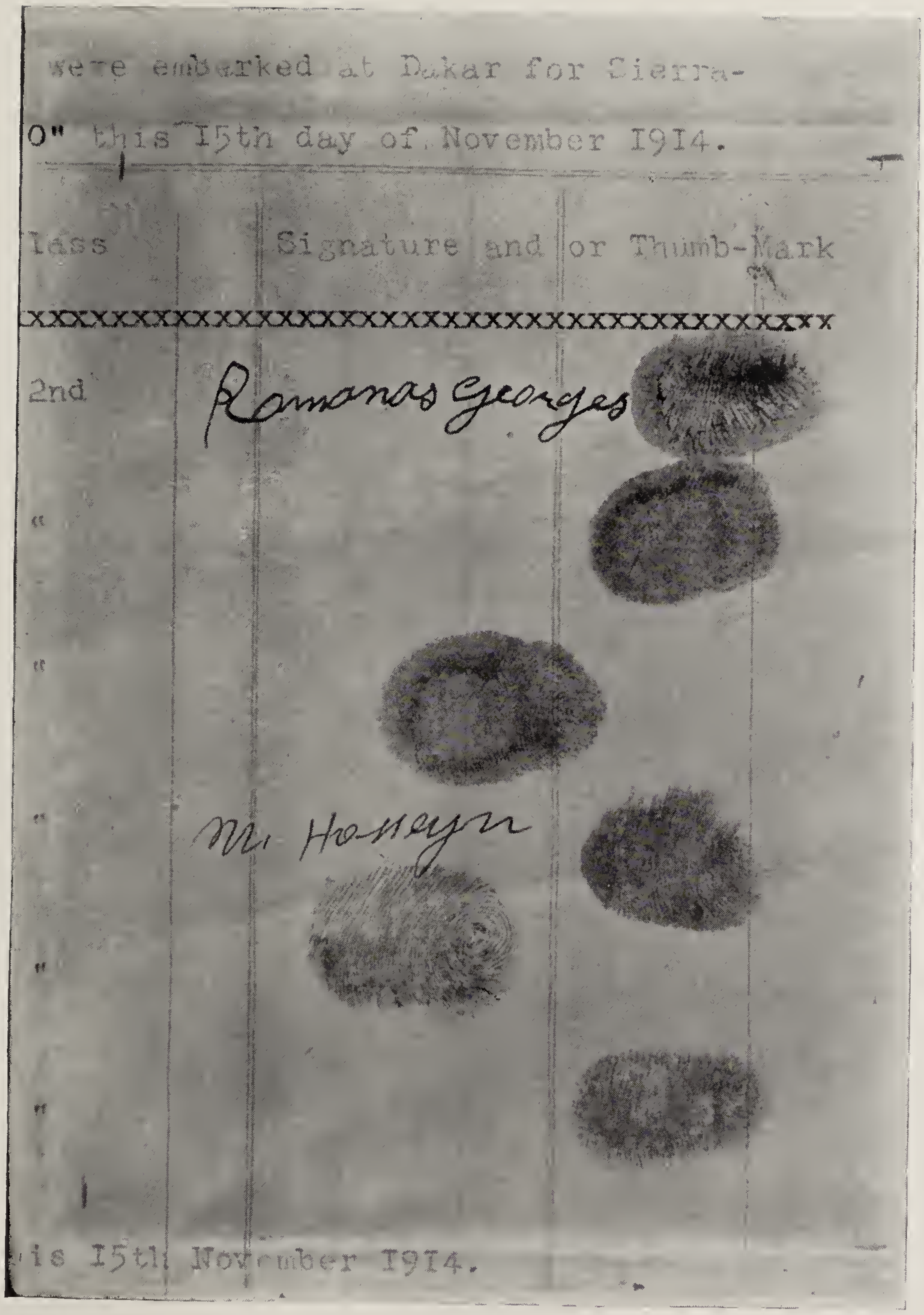


Second Grade Pavilion Quarters.



Store, Dispenser's Quarters, and First Grade Pavilion.

Water Elevator.



were embarked at Dakar for Sierra-

O" this 15th day of November 1914.

| lass | Signature and or Thumb-Mark |
|---|---|
| 2nd | Romanos Georges |
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| " | M. Hasseyn |
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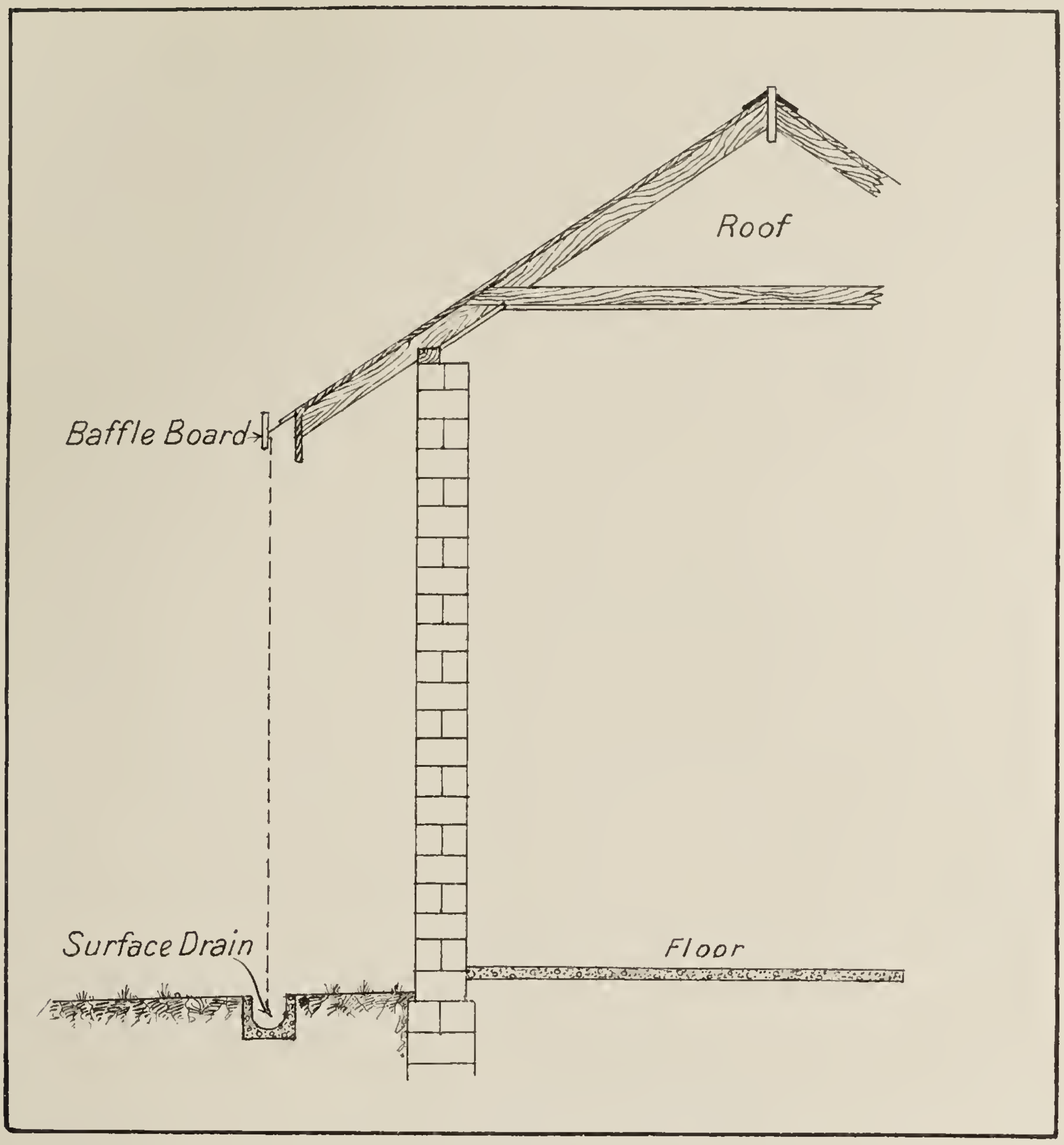
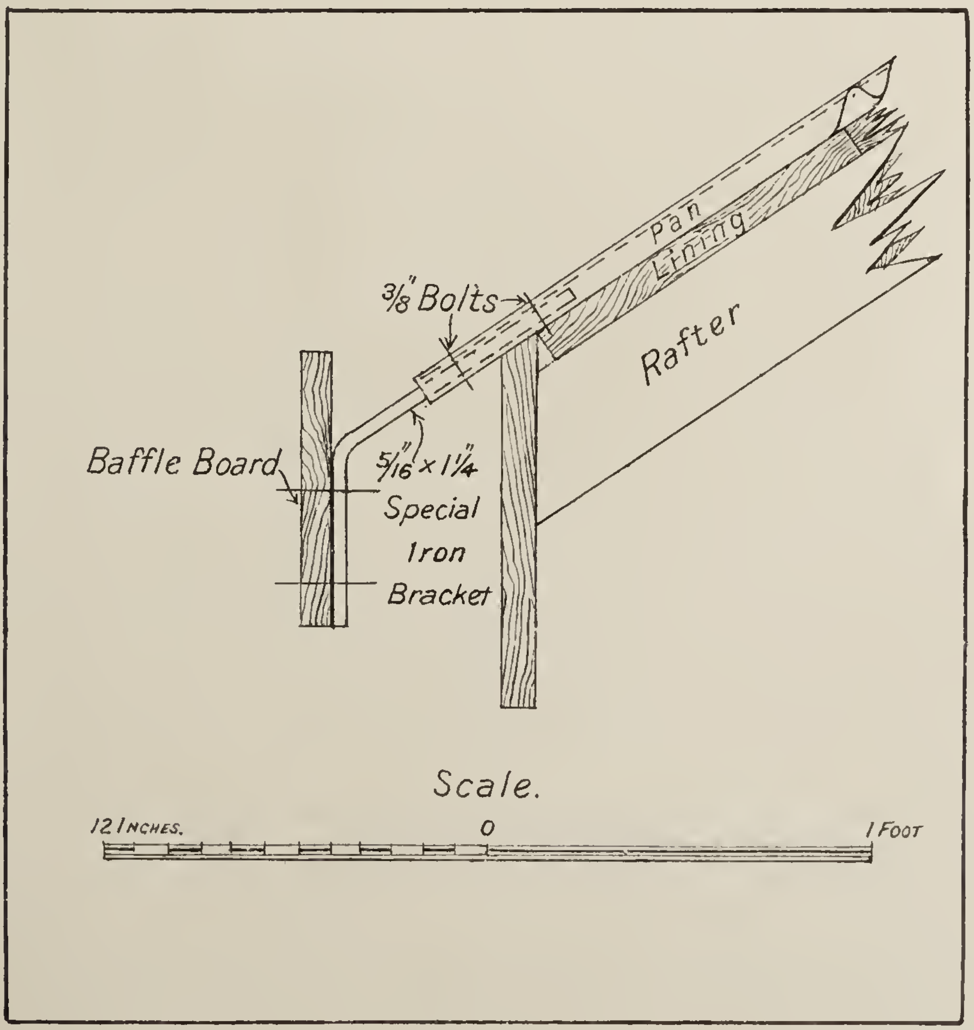
is 15th November 1914.

Finger Prints.



# —DEVICE— —FOR LIMITING PROJECTION OF RAINWATER— —FROM ROOFS.—



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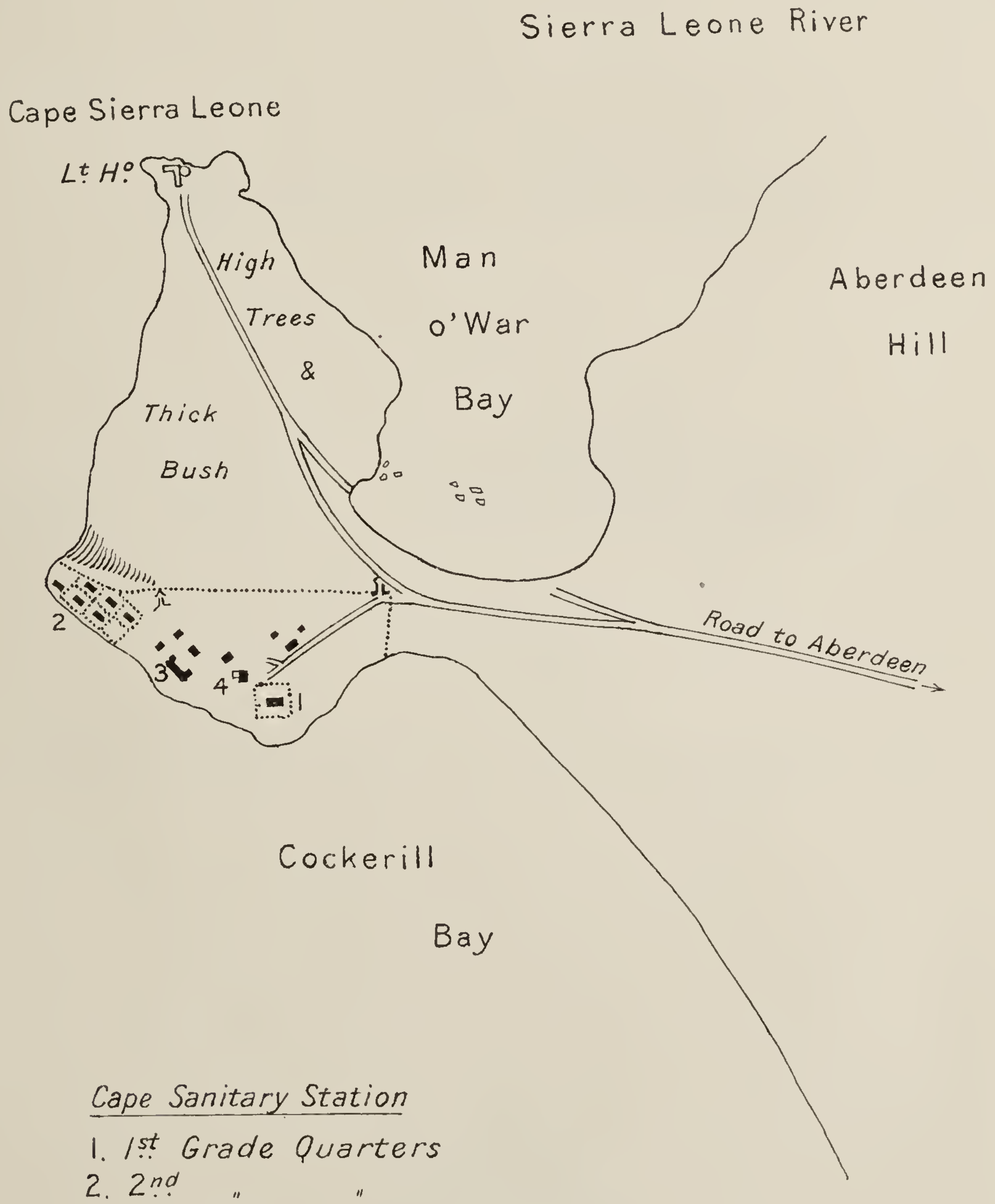

*Cape Sanitary Station*

1. *1st Grade Quarters*
2. *2nd " "*
3. *Hospital*
4. *Dispenser's Quarters*

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[illegible]